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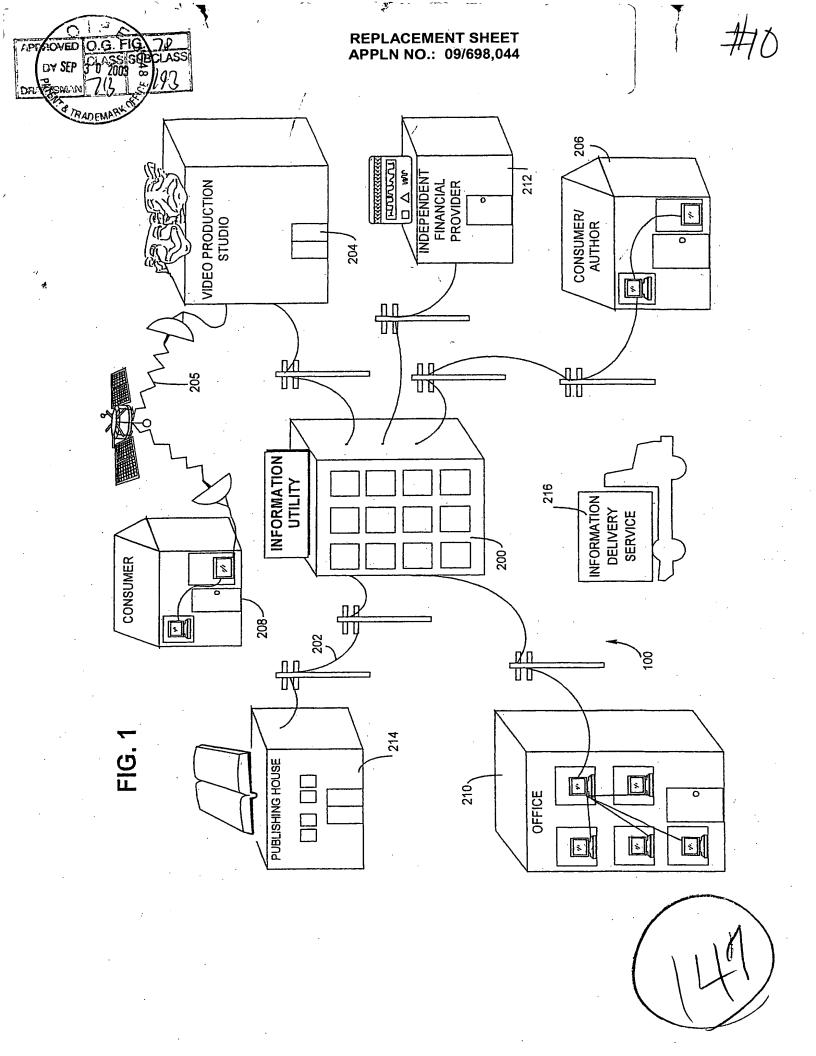
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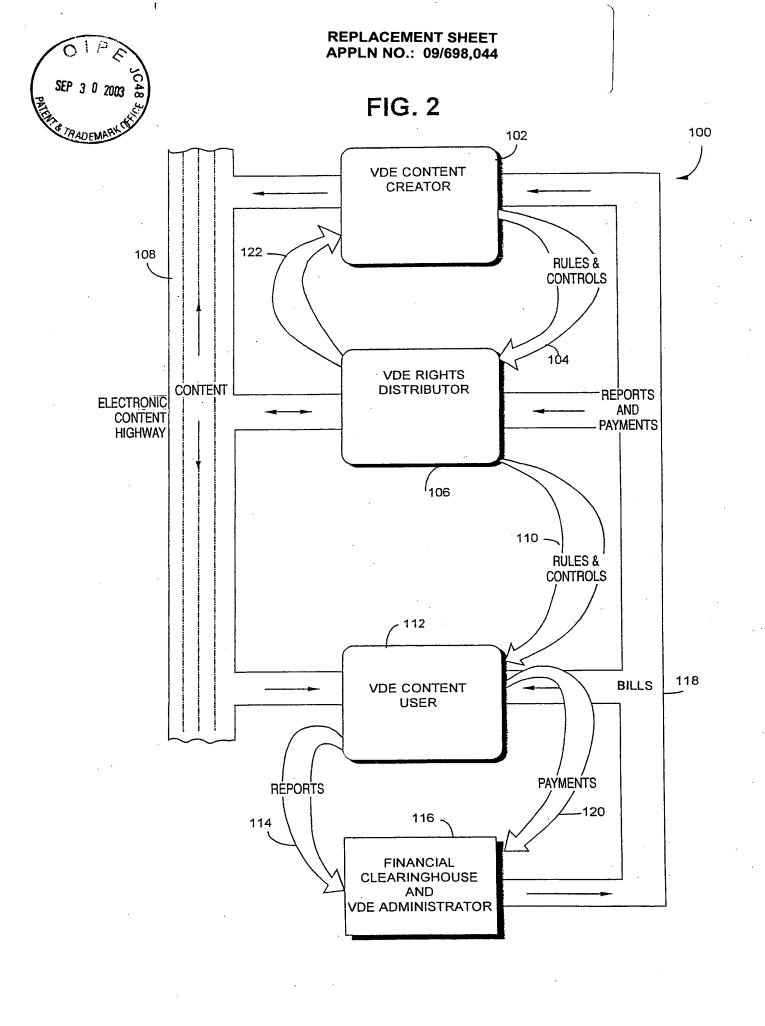
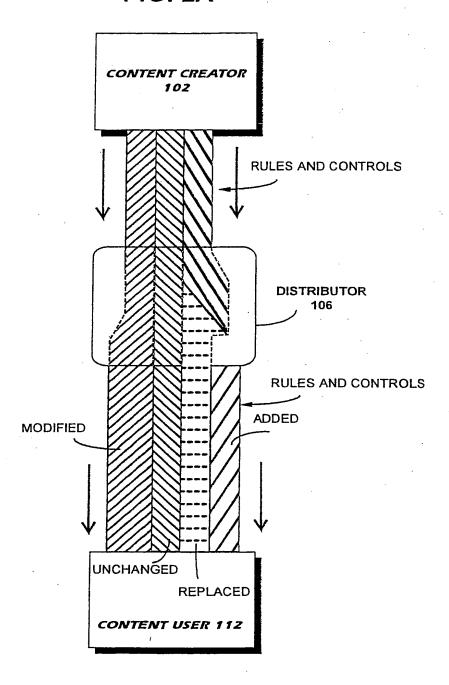
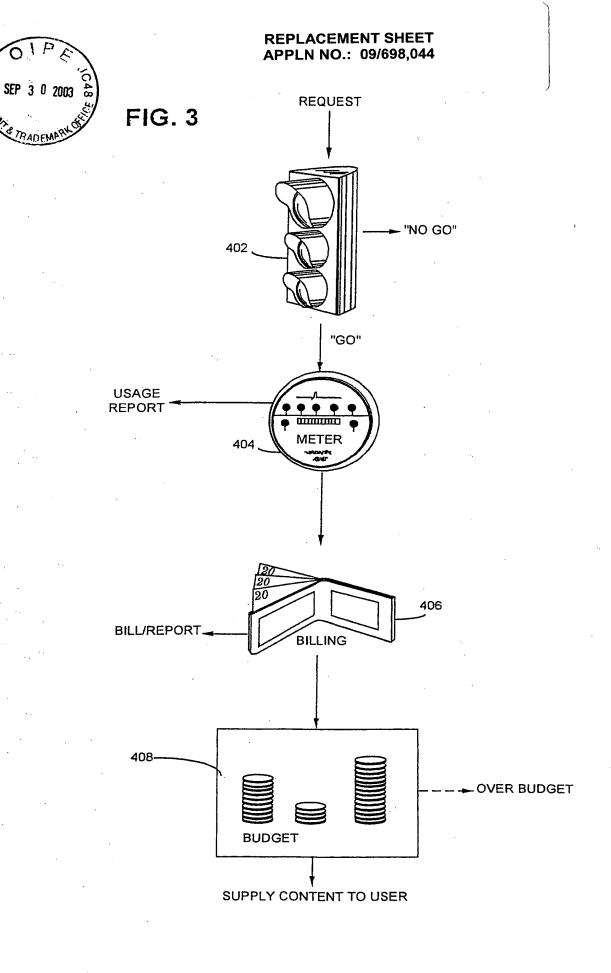




FIG. 2A





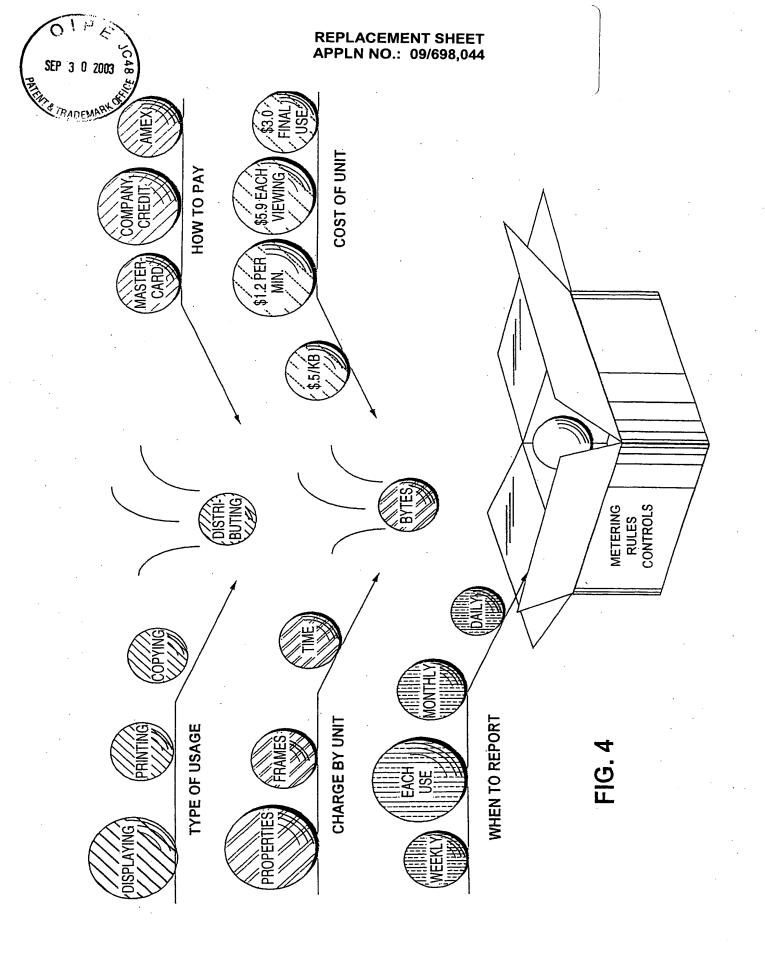
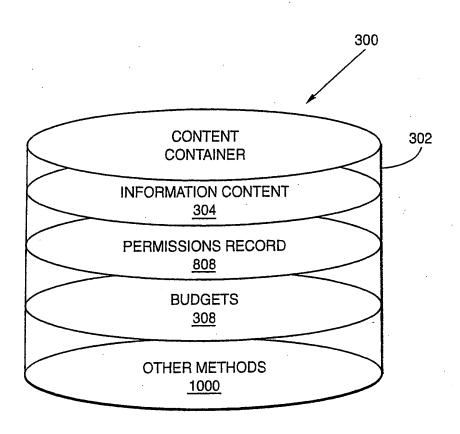
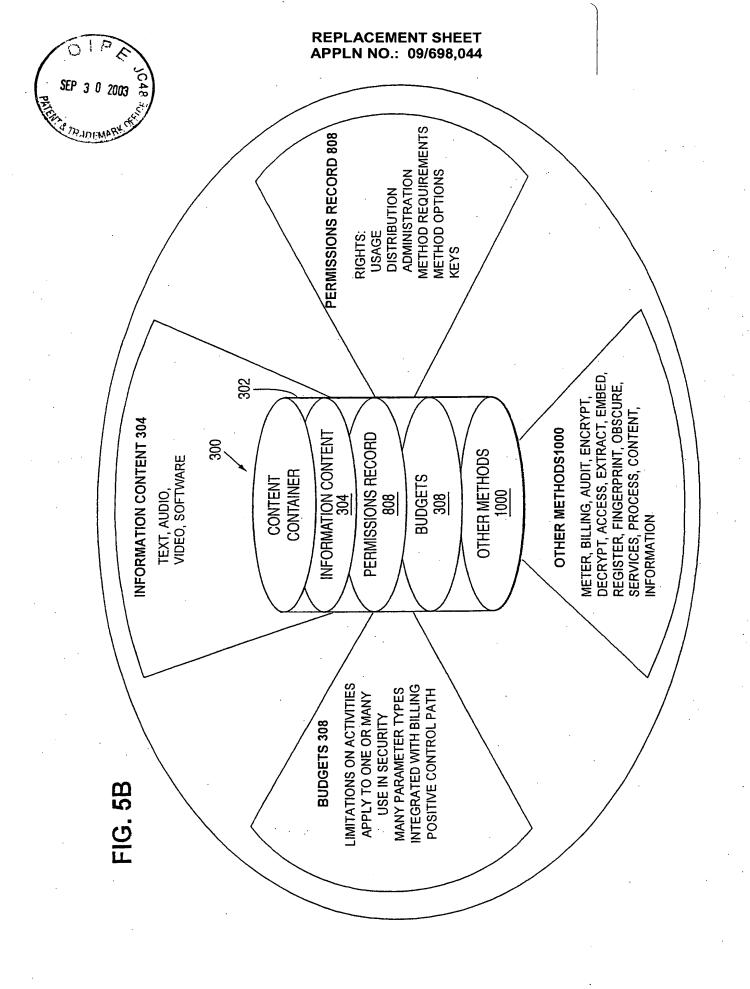


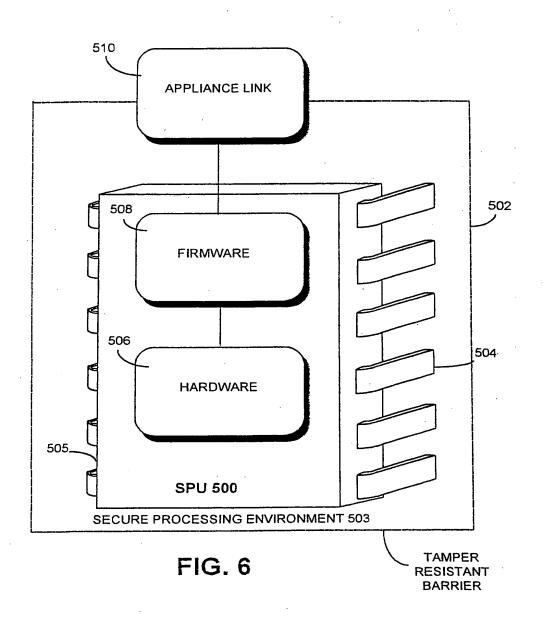


FIG. 5A

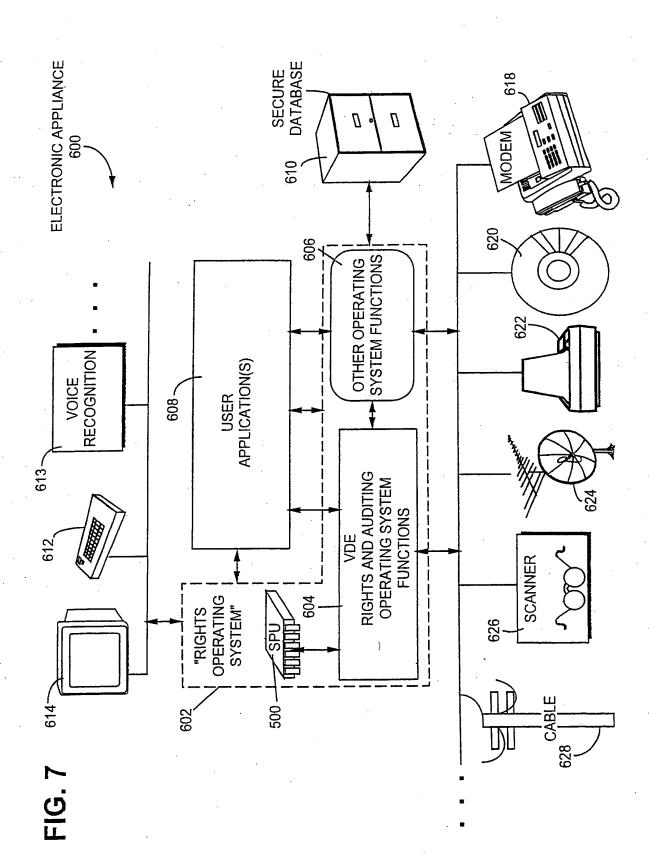


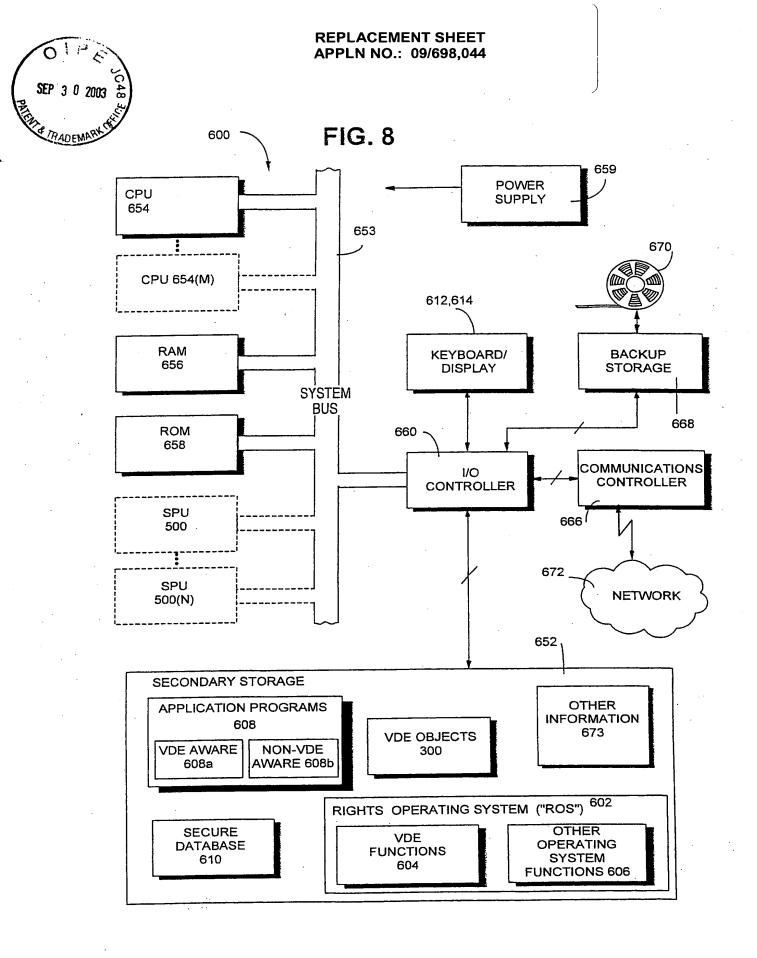




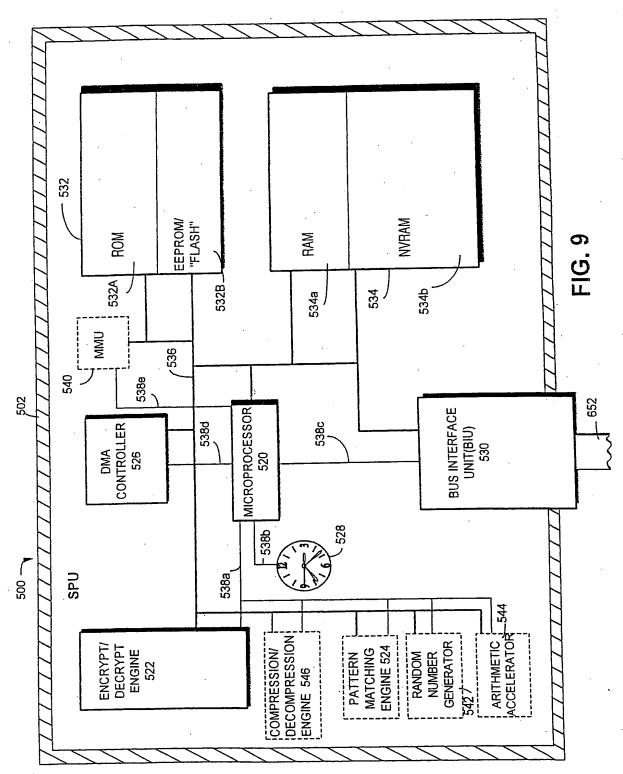




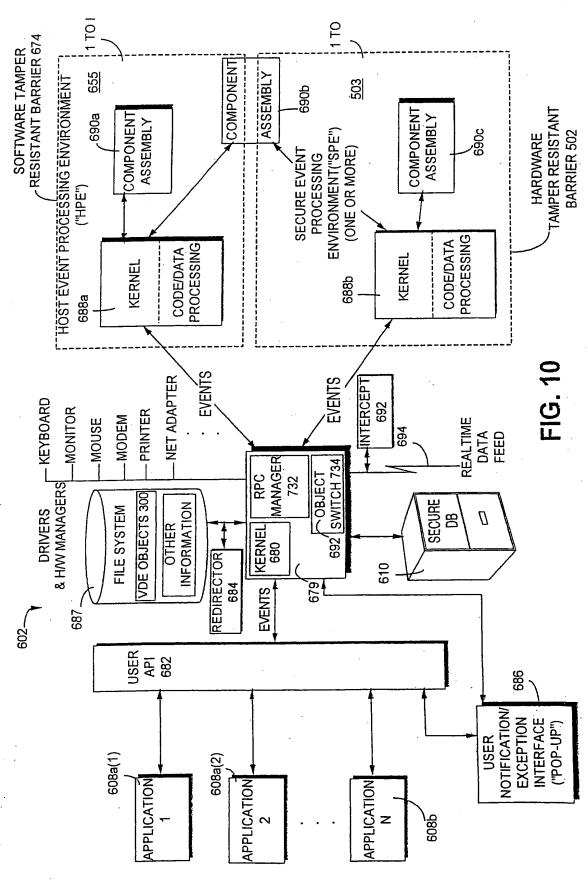


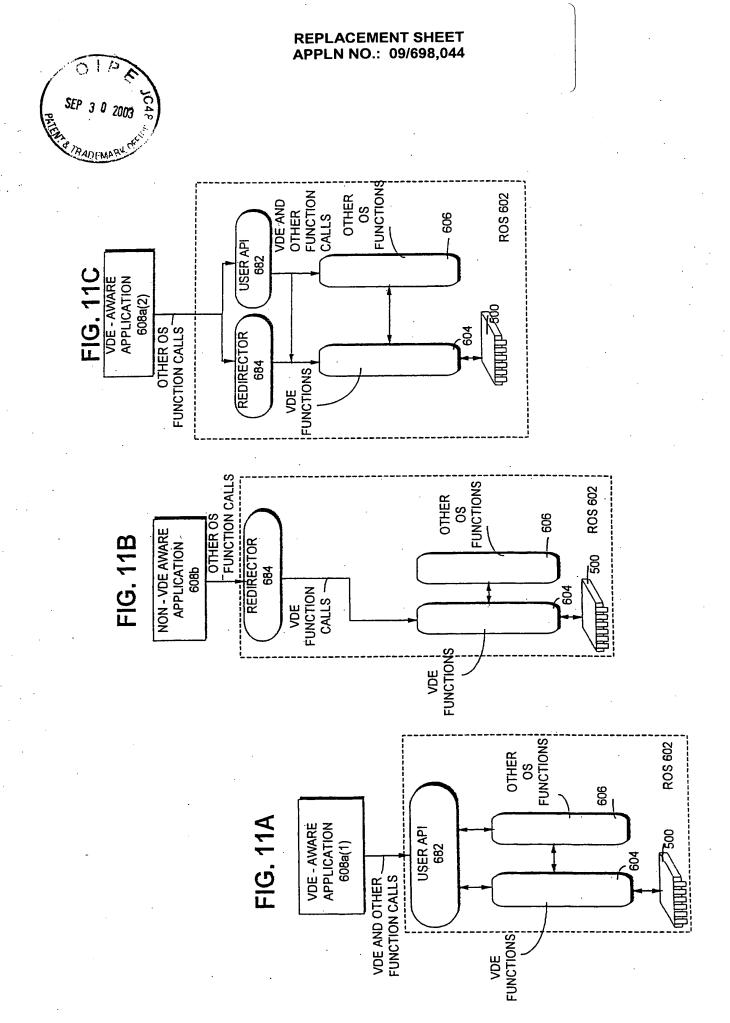


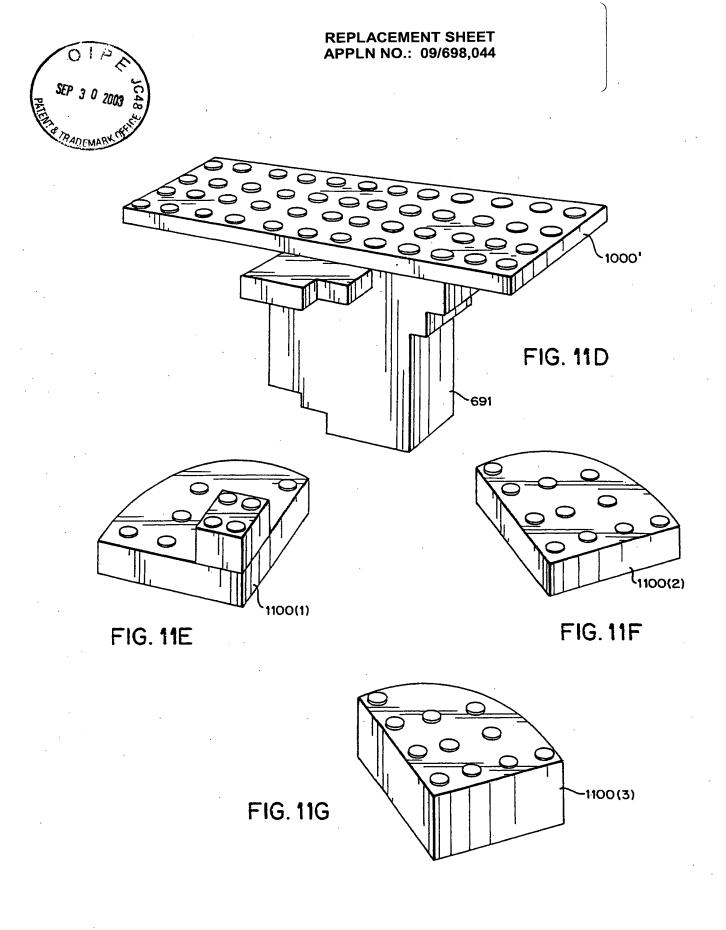














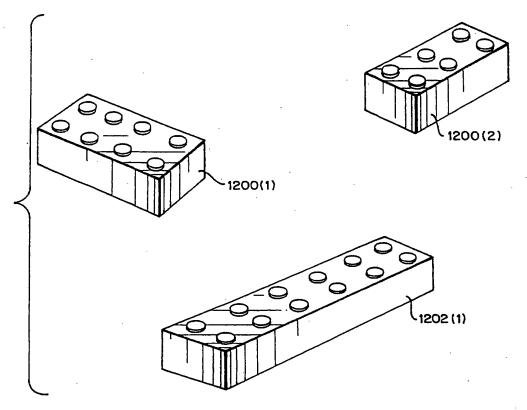
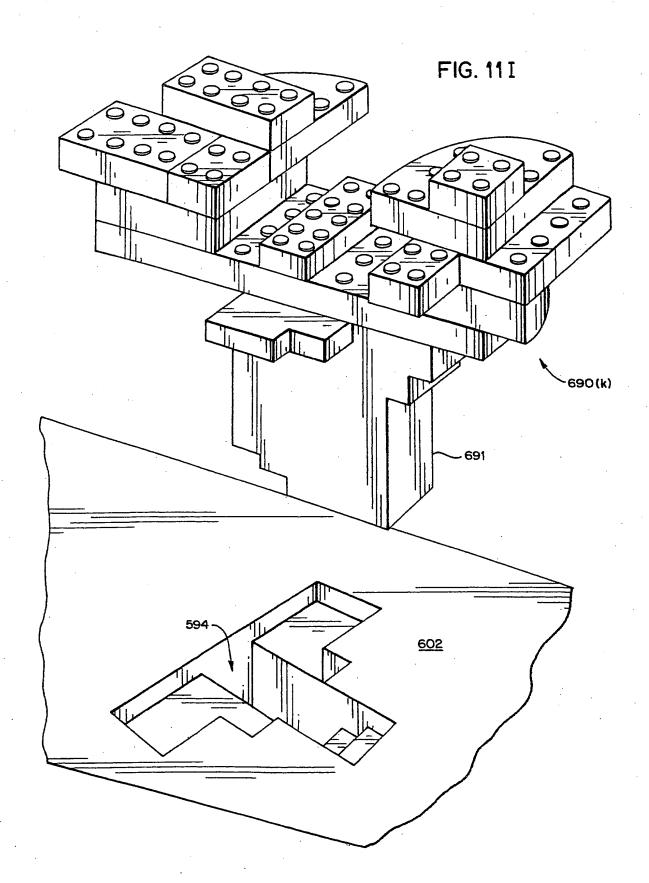
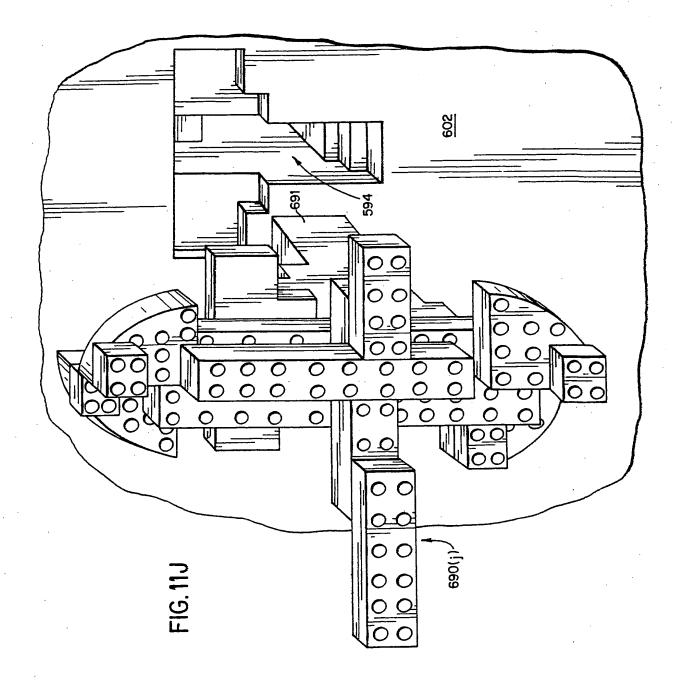


FIG. 11H

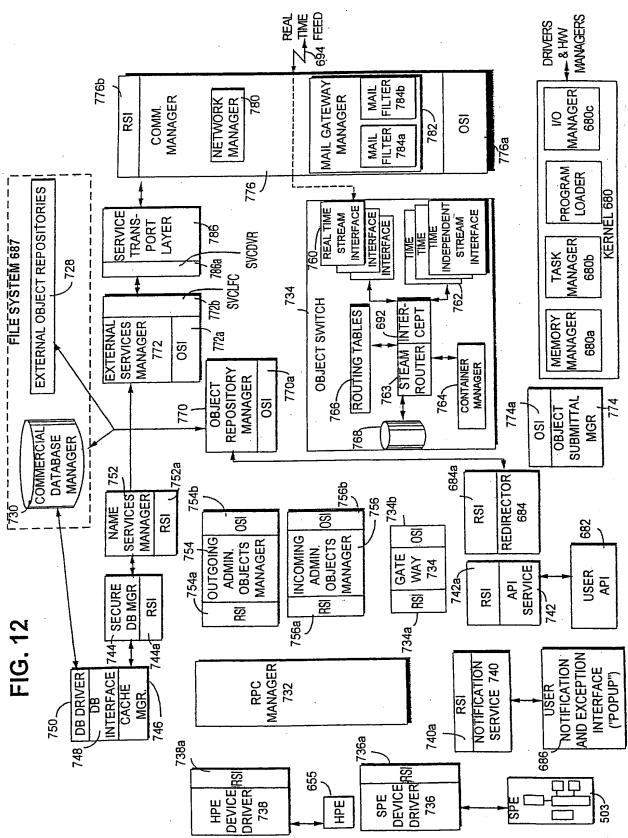












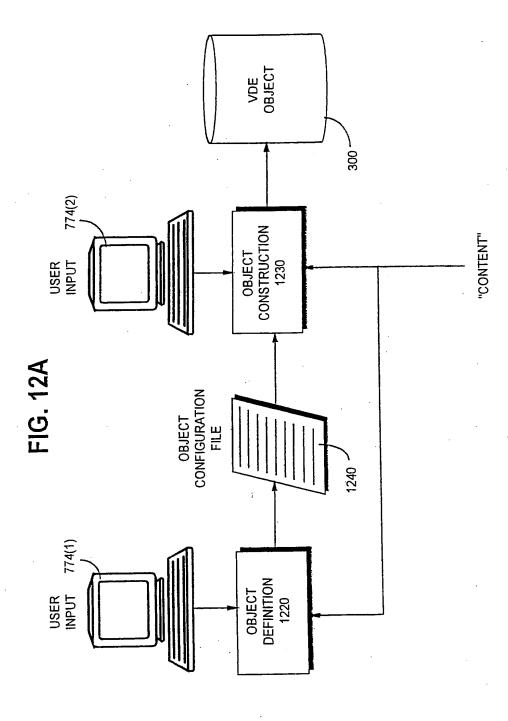




FIG. 14A

/
DEVICE FIRM WIRE LOW LEVEL SERVICES 582
INITIALIZATION
POST
DOWNLOAD CHALLENGE/RESPONSE AND AUTHENTICATION
RECOVERY
EEPROM/FLASH MEMORY MANAGER
KERNEL/DISPATCHER 552
INITIALIZATION
TASK MANAGER 576 (SLEEP/AWAKE/CONTEXT SWAP)
INTERRUPT HANDLER 584 (TIMER/BIU/POWER FAIL/WATCHDOG TIMER/ENCRYPTION COMPLETED)
BIU HANDLER 586
MEMORY MANAGER 578
INITIALIZATION (SETTING MMU TABLES
ALLOCATE
DELLOCATE
VIRTUAL MEMORY MANAGER 580
SWAP BLOCK PAGING
EXTERNAL MODULE PAGING
MEMORY COMPRESS
RPC AND TABLES 550
INITIALIZATION
MESSAGING CODE /SERVICES MANAGER
SEND/RECEIVE
STATUS
RPC DISPATCH TABLE
RPC SERVICE TABLE
_

TIME BASE MANAGER 554		
ENCRYTION/DECRYPTION MANAGER 556		
PK .		
BULK		
KEY AND TAG MANAGER 558		
KEY STORAGE IN EEPROM		
KEY LOCATOR		
KEY GENERATOR		
CONVOLUTION ALGORITHM		
SUMMARY SERVICES MANAGER 560		
EVENT SUMMARIES		
BUDGET SUMMARIES		
DISTRIBUTER SUMMARY SERVICES		
CHANNEL SERVICES MANAGER 562		
CHANNEL HEADERS		
CHANNEL DETAILS		
LOAD MODULE EXECUTION SERVICES		
568 AUTHENTICATION MANAGER/SECURE COMMUNICATION MANAGER 564		
DATABASE MANAGER 566		
MANAGEMENT FILE SUPPORT		
TRANSACTION AND SEQUENCE NUMBER SUPPORT		
SRN/ HASH		
DTD INTERPRETER 590		
LIBRARY ROUTINES 574 I/O CALLS(STRING SEARCH ETC.)		
MISC. ITEMS THAT ARE PROBABLY LIBRARY ROUTINES		
TAG CHECKING,MD5,CRC'S		
INTERNAL LM'S 572 FOR BASIC METHODS		
METER LOAD MODULE(S)		
BILLING LOAD MODULE(S)		
BUDGET LOAD MODULE(S)		
AUDIT LOAD MODULE(S)		
READ OBJECT LOAD MODULE(S)		
WRITE OBJECT LOAD MODULE(S)		
OPEN OBJECT LOAD MODULE(S)		
CLOSE OBJECT LOAD MODULE(S		



FIG. 14B

•

PUBLIC KEY AND PRIVATE KEY, SYSTEM ID, AUTHENTICATION CERTIFICATE, VDE SYSTEM PUBLIC KEY, PRIVATE DES KEY		
TOP LEVEL KEYS FOR OBJECTS		
TOP LEVEL BUDGET INFO		
METER SUMMATION VALUES		
KEY RECORDS FOR BUDGET RECORDS, AUDIT RECORDS, STATIC MANAGEMENT RECORDS, UPDATED MANAGEMENT RECORDS, ETC.		
DEVICE DATA TABLE		
SITE ID		
TIME		
ALARMS		
TRANSACTION/SEQUENCE #'S		
MISCELLANEOUS		
MEMORY MAP		
MAP METERS		
LM/UDT TABLE		
TASK MANAGER 576		
CHANNEL(S)		
SUMMARY SERVICES 560		
SECURE DATABASE TAGS		
SRN ENTRIES		
HÄSH ENTRIES		

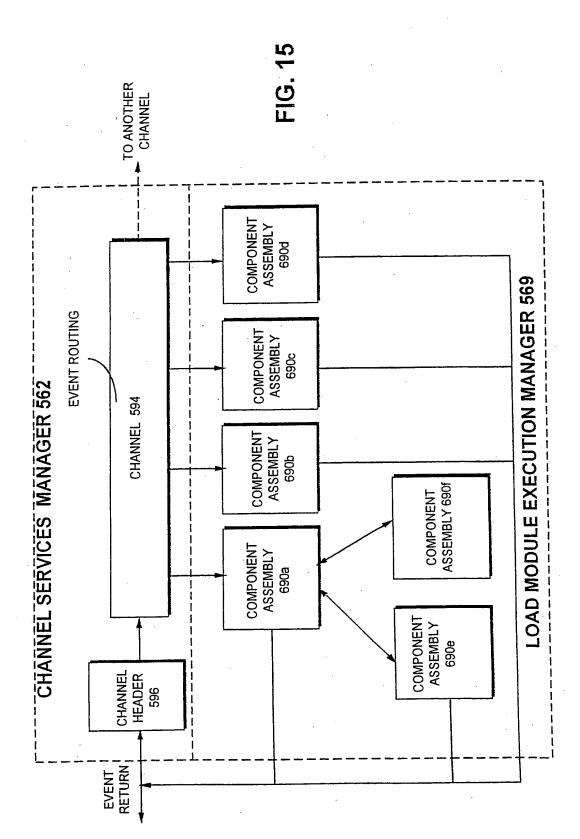




FIG. 14C

STACK		
•		
CHANNEL SWAP BLOCK	CHANNEL LM	
	CHANNEL HEADER & D1	
CONTROL SWAP BLOCK CONTROL LM		
	CONTROL D1	
	COMMIT LM	
	COMMIT D1, D2, D3	
EVENT SWAP BLOCK		
EVENT OVIN BEOOK	EVENT LM	
	MAP TABLE (SINGLE) D1	
METER SWAP BLOCK		
	METER LM	
4	METER UDE DELTA, DELTA'	
	METER TRAIL LM	
	METER TRAIL UDE	
	DELTA,DELTA'	
BUDGET SWAP BLOCK		
	METER LM	
·	METER UDE DELTA, DELTA'	
	METER TRAIL LM	
	METER TRAIL UDE	
	DELTA,DELTA'	
BILLING SWAP BLOCK		
	BILLING LM	
	METER UDE	
	BUDGET UDE	
	BILLING TABLE UDE	
	BILLING TRAIL LM	
	BILLING TRAIL UDE DELTA'	







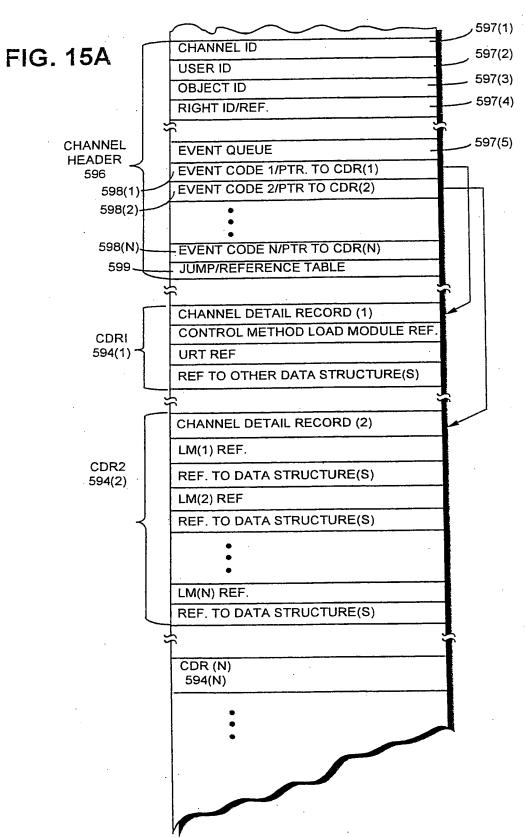
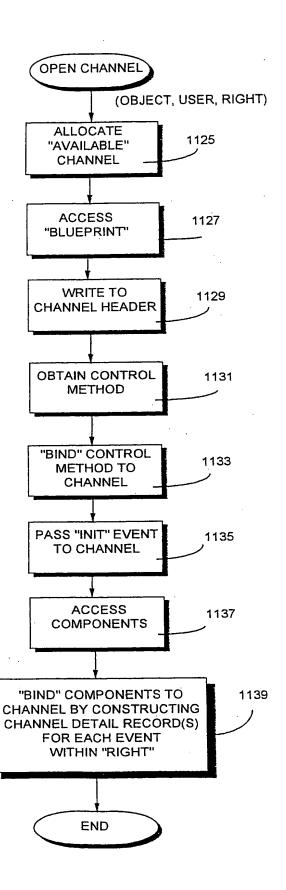
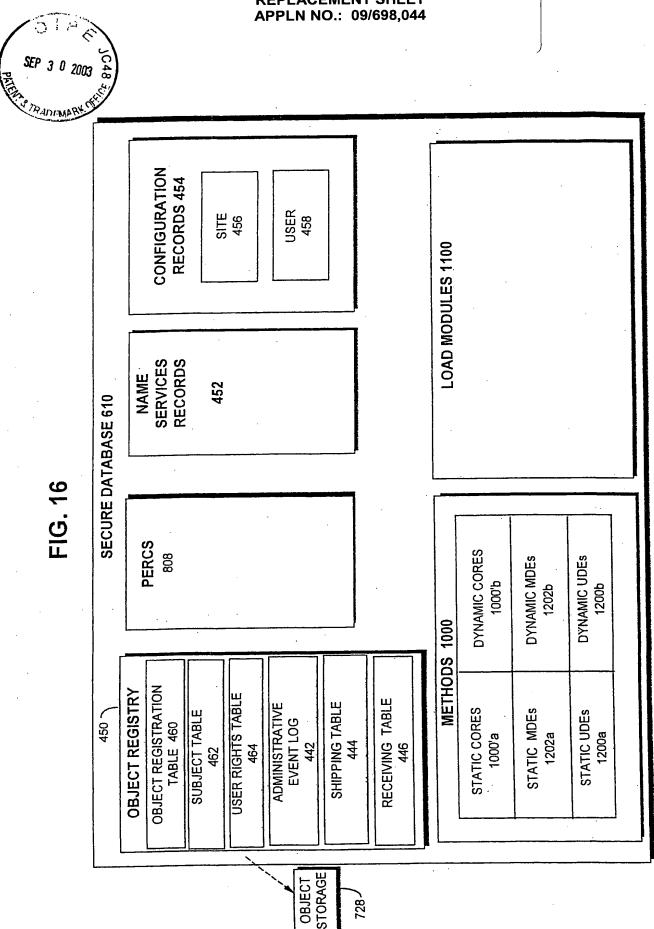




FIG. 15B







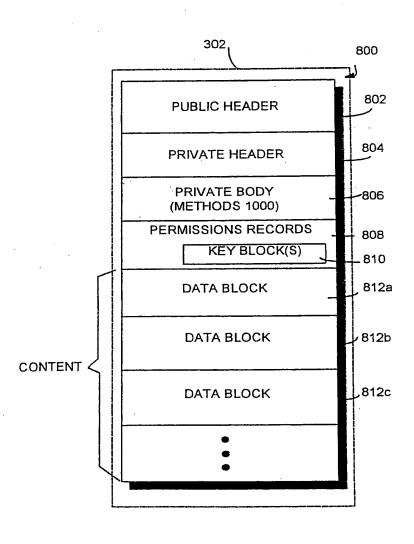


FIG. 17



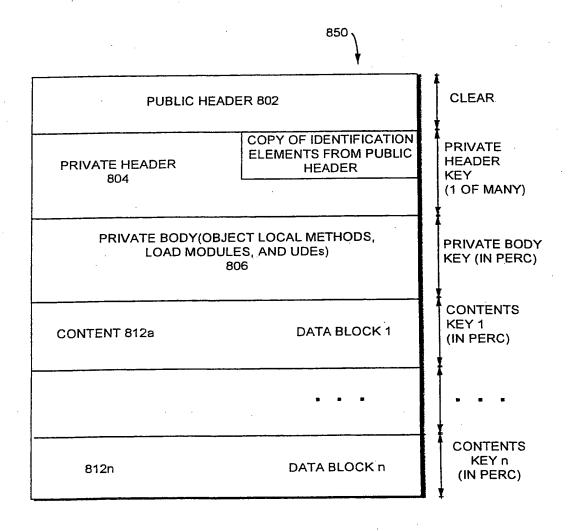


FIG. 18



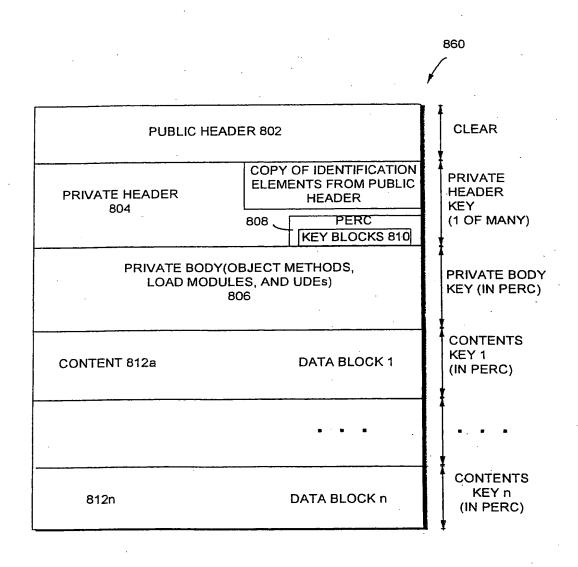


FIG. 19



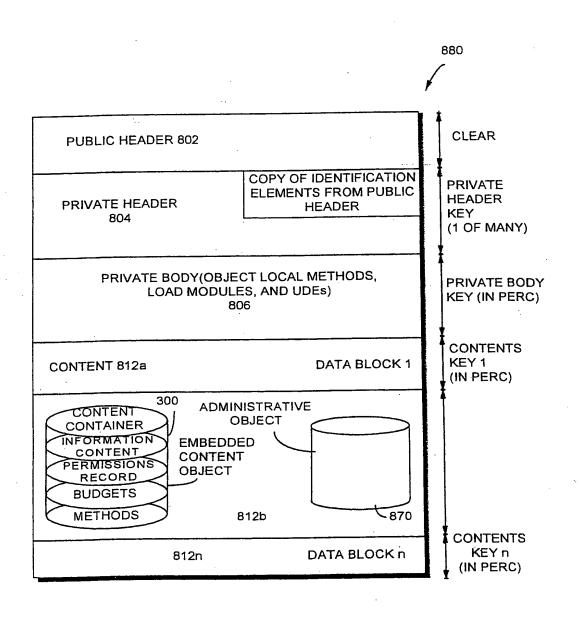


FIG. 20



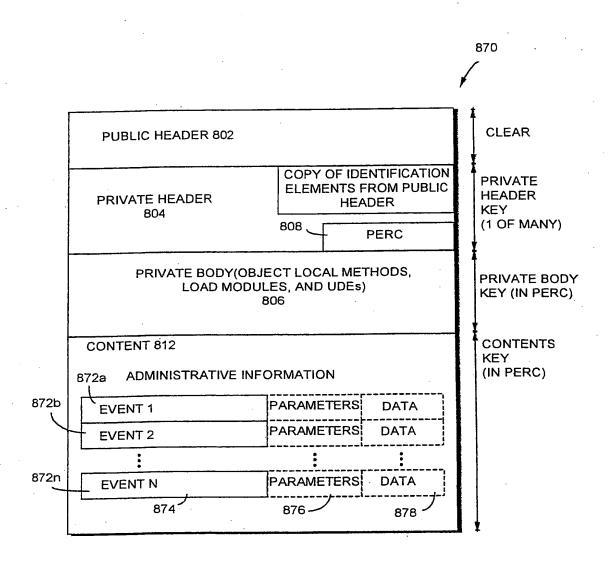


FIG. 21



FIG. 22

1000'

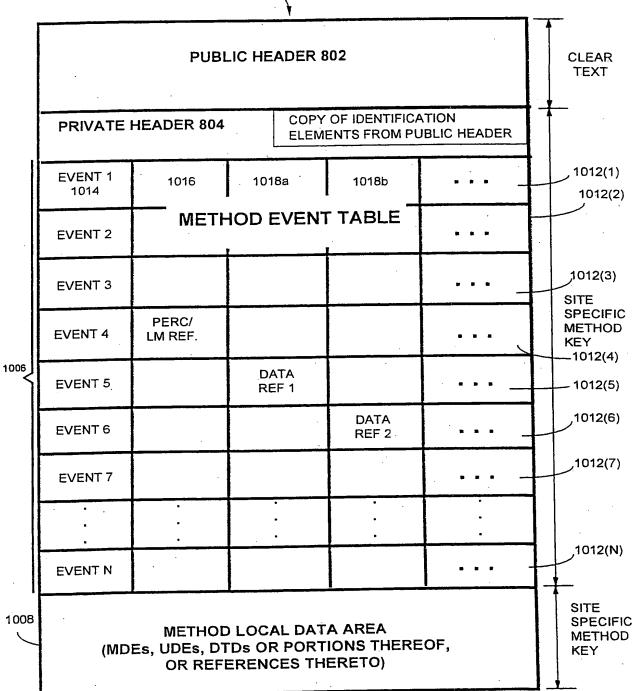




FIG. 23

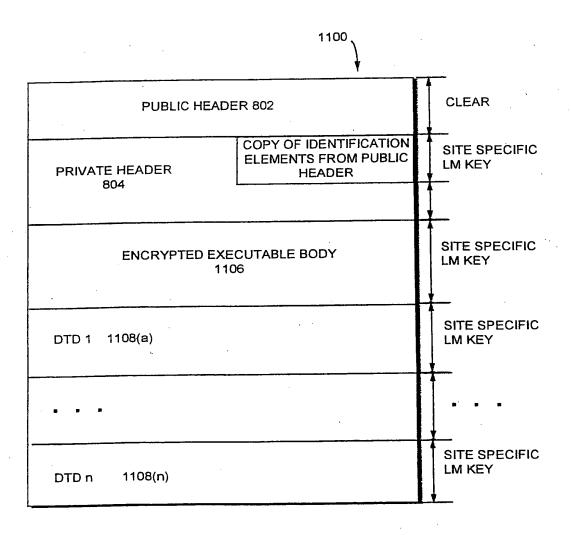




FIG. 24

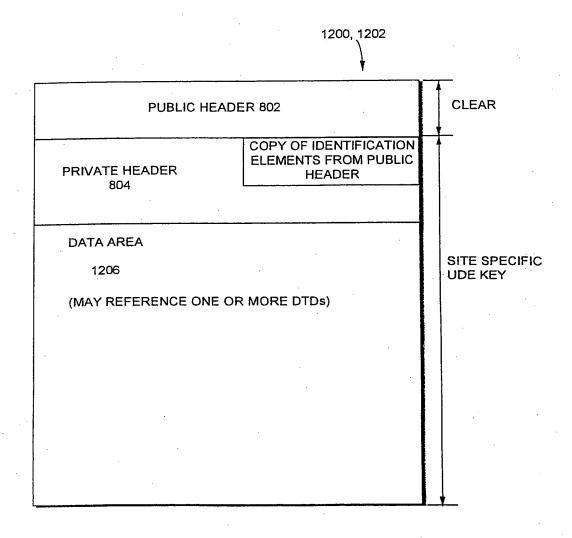




FIG. 25A

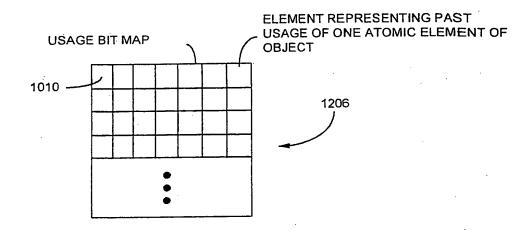


FIG. 25B

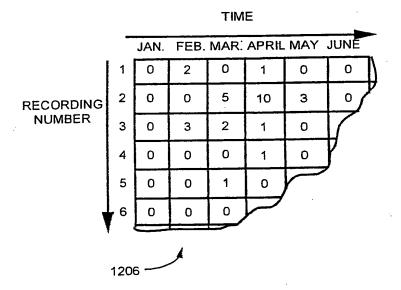
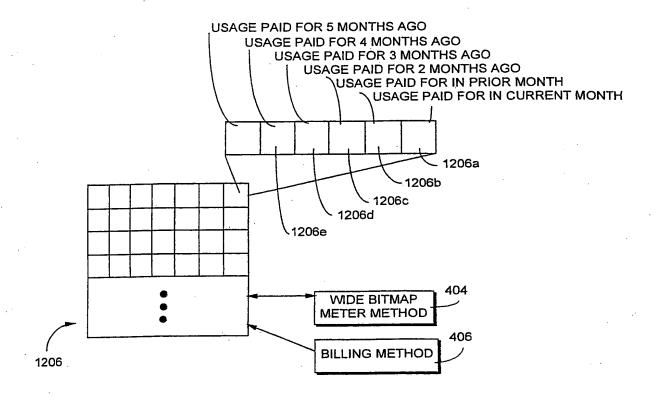


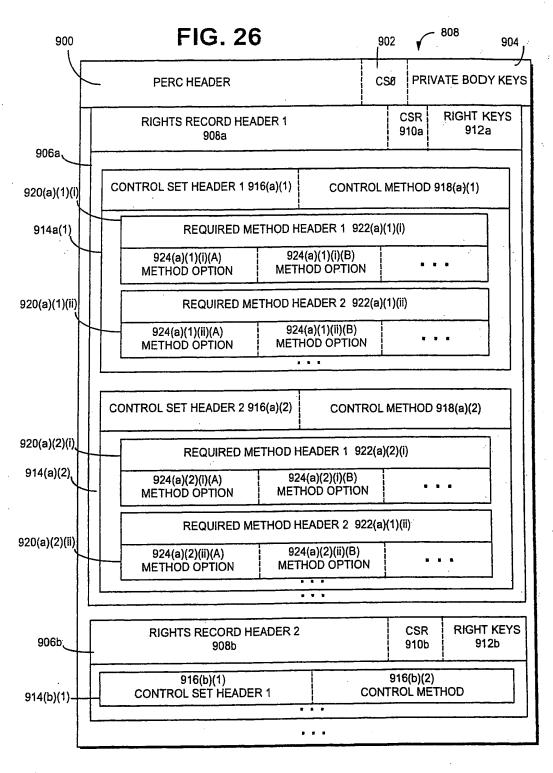




FIG. 25C







SEP 3 0 2003 45

REPLACEMENT SHEET APPLN NO.: 09/698,044

FIG. 26A

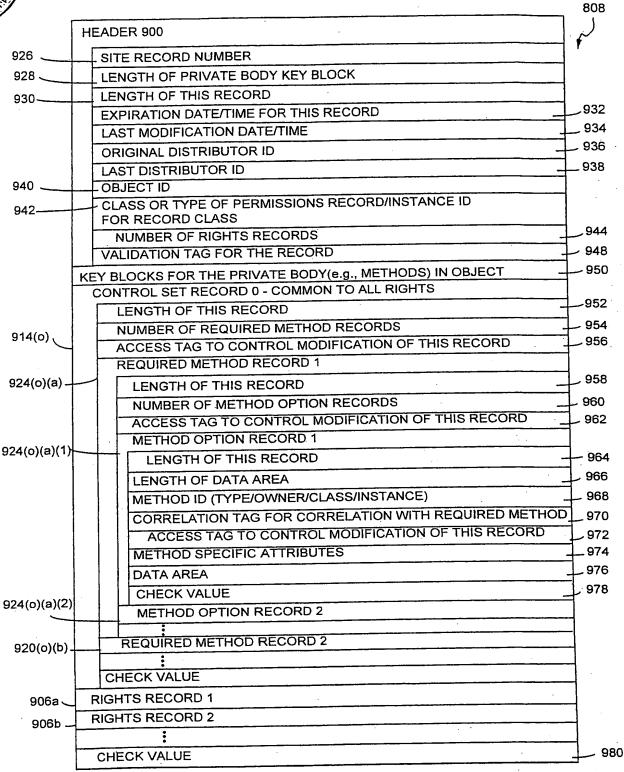


FIG. 26B

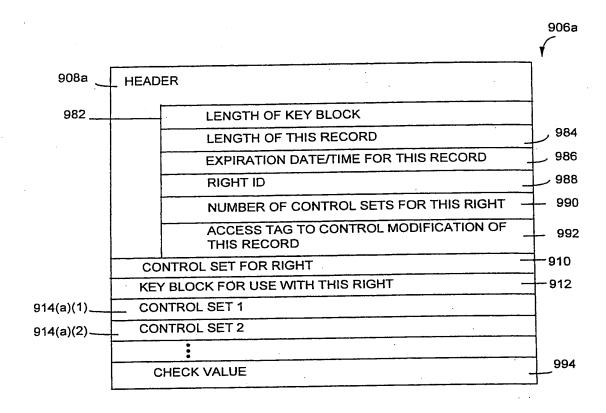




FIG. 27

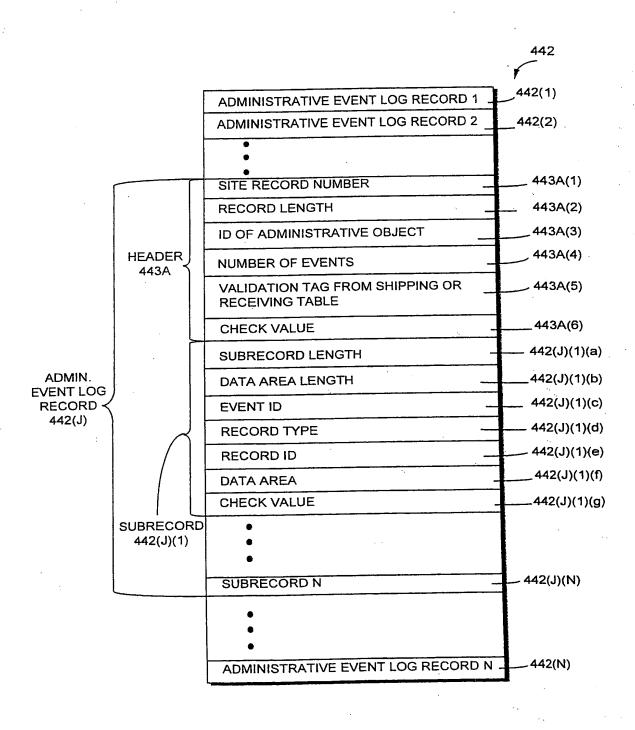
444A(1) _ 444 SITE RECORD NUMBER USER (GROUP) ID .444A(2) REF. TO "FIRST" COMPLETED OUTGOING SHIPPING RECORD 444A(3) REF. TO "LAST" COMPLETED OUTGOING SHIPPING RECORD 444A(4) REF. TO "FIRST" SCHEDULED OUTGOING SHIPPING RECORD **HEADER** 444A(5) 444A REF. TO "LAST" SCHEDULED OUTGOING SHIPPING RECORD 444A(6) VALIDATION TAG FROM NAME SERVICES RECORD -444A(7) VALIDATION TAG FOR "FIRST" OUTGOING SHIPPING RECORD(S) -444A(8) . **CHECK VALUE** - 444A(9) SITE RECORD NUMBER .445(1)(A) FIRST DATE/TIME FOR SCHEDULED SHIPMENT 445(1)(B) LAST DATE/TIME FOR SCHEDULED SHIPMENT 445(1)(C) 445(1)(D) ACTUAL DATE/TIME OF COMPLETED SHIPMENT OBJECT ID OF ADMINISTRATIVE OBJECT (TO BE) SHIPPED 445(1)(E) REF. TO ENTRY IN ADMINISTRATIVE EVENT LOG 445(1)(F) REF. TO NAME SERVICES RECORD NAMING RECIPIENT 445(1)(G) PURPOSE OF SHIPMENT . 445(1)(H) SHIPPING STATUS OF SHIPMENT _ 445(1)(I) RECORD 445(1) REF. TO "PREVIOUS" OUTGOING SHIPPING RECORD - 445(1)(J) REF. TO "NEXT" OUTGOING SHIPPING RECORD _ 445(1)(K) ,445(1)(L) VALIDATION TAG FROM HEADER _445(1)(M) VALIDATION TAG TO ADMINISTRATIVE EVENT LOG _445(1)(N) VALIDATION TAG TO NAME SERVICES RECORD .445(1)(O) VALIDATION TAG FROM PREVIOUS RECORD VALIDATION TAG TO NEXT RECORD _445(1)(P) _ 445(1)(Q) **CHECK VALUE** 445(1)(R) SHIPPING RECORD N

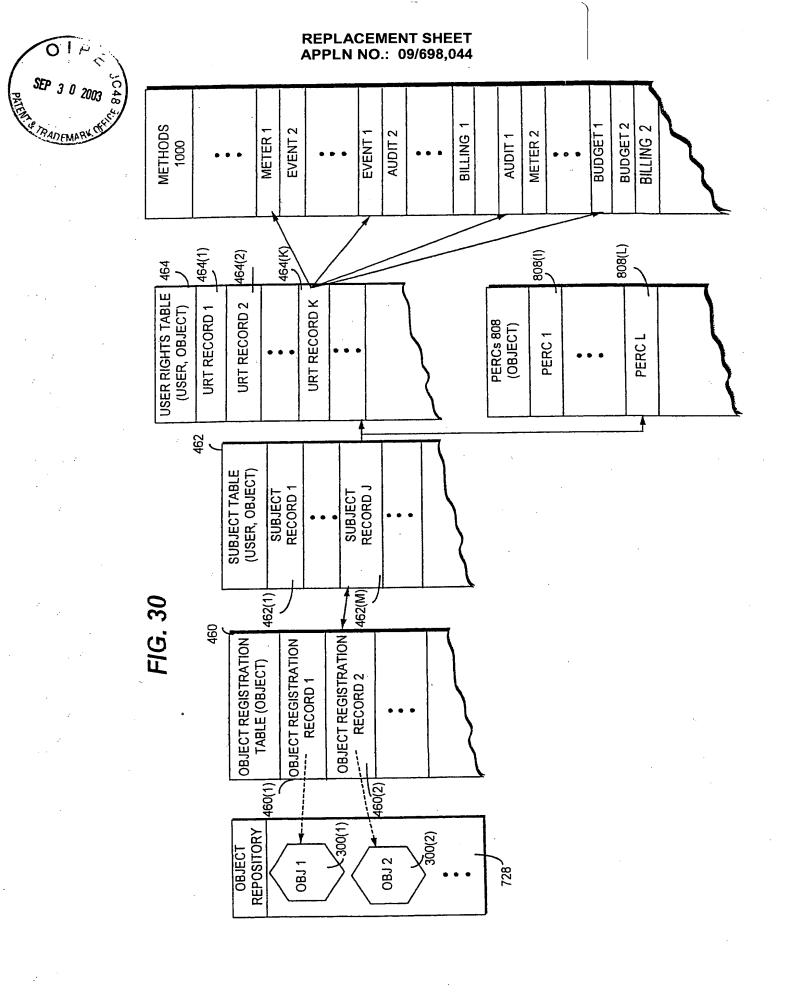


FIG. 28

446A(1) 446 SITE RECORD NUMBER . 446A(2) USER (GROUP) ID REF. TO "FIRST" COMPLETED INCOMING RECEIVING RECORD 446A(3) REF. TO "LAST" COMPLETED INCOMING RECEIVING RECORD 446A(4) REF. TO "FIRST" SCHEDULED INCOMING RECEIVING RECORD _446A(5) **HEADER** REF. TO "LAST" SCHEDULED INCOMING RECEIVING RECORD 446A 446A(6) VALIDATION TAG FROM NAME SERVICES RECORD -446A(7) VALIDATION TAG FOR "FIRST" INCOMING RECEIVING RECORD(S) _446A(8) 446A(9) **CHECK VALUE** SITE RECORD NUMBER ₋ 447(1)(A) FIRST DATE/TIME FOR SCHEDULED RECEPTION ,447(1)(B) LAST DATE/TIME FOR SCHEDULED RECEPTION 447(1)(C) 447(1)(D) ACTUAL DATE/TIME OF COMPLETED RECEPTION OBJECT ID OF ADMINISTRATIVE OBJECT (TO BE) RECEIVED . 447(1)(E) 447(1)(F) REF. TO ENTRY IN ADMINISTRATIVE EVENT LOG **RECEIVING** REF. TO NAME SERVICES RECORD NAMING SENDER .447(1)(G) RECORD 447(1)(H) 447(1) PURPOSE OF RECEPTION _ 447(1)(I) STATUS OF RECEPTION REF. TO "PREVIOUS" INCOMING RECEIVING RECORD _ 447(1)(J) _ 447(1)(K) REF. TO "NEXT" INCOMING RECEIVING RECORD ,447(1)(L) **VALIDATION TAGS** _447(1)(M) **CHECK VALUE** 447(2) RECEIVING RECORD N

FIG. 29







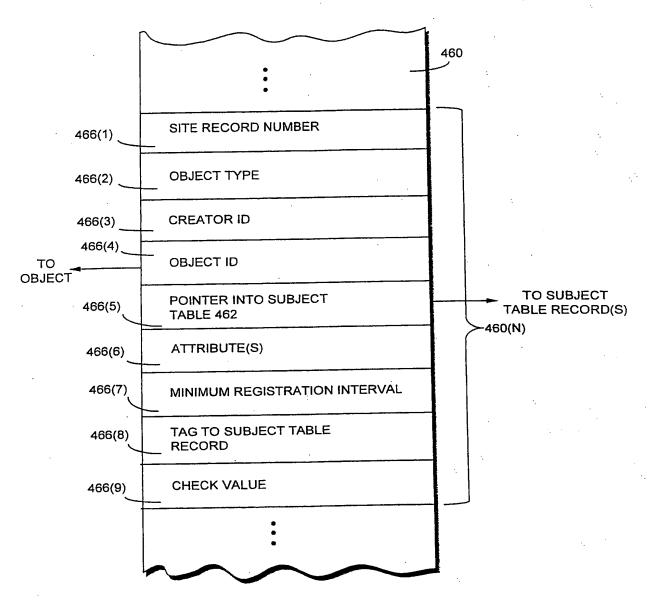


FIG. 31

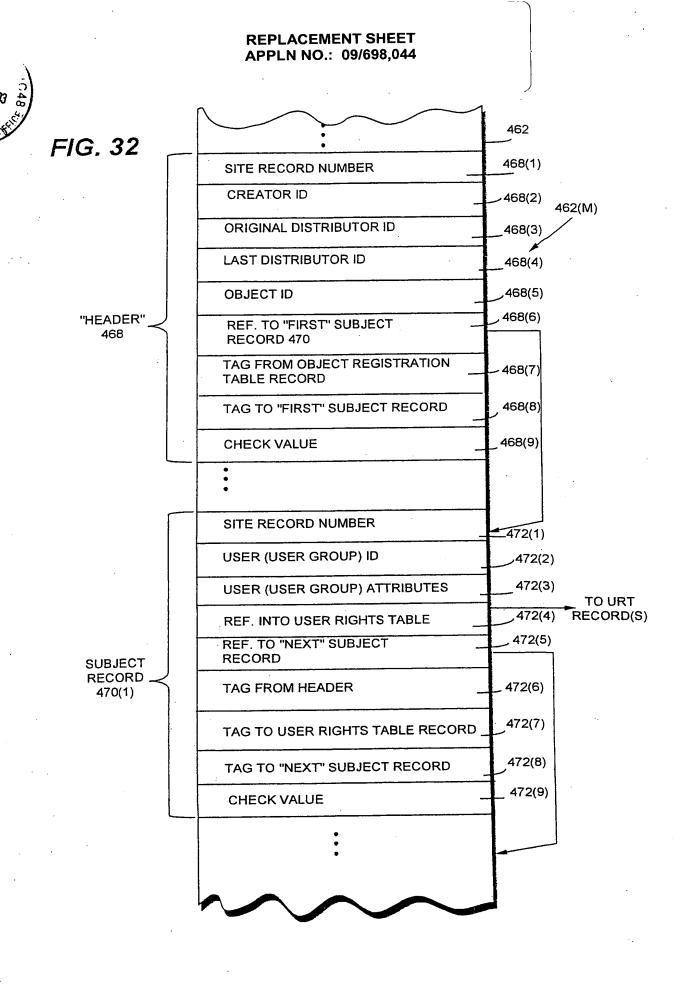
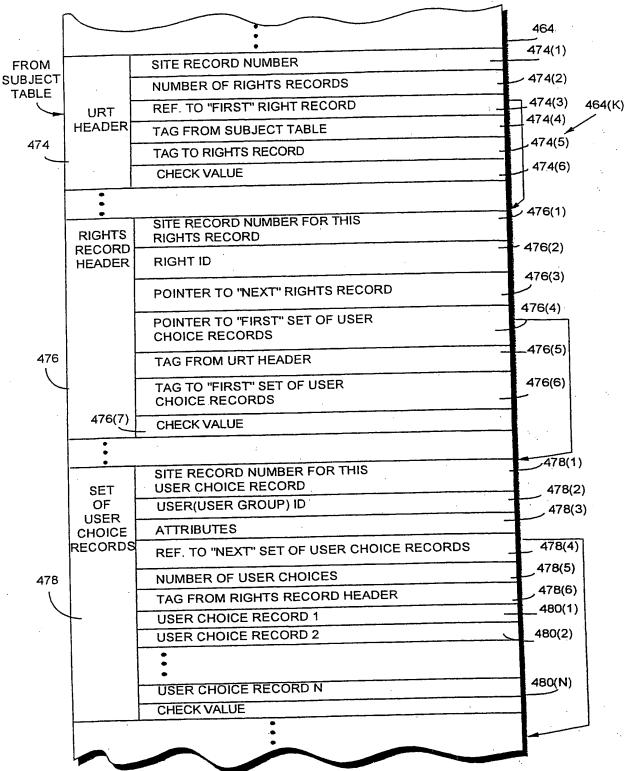




FIG. 33



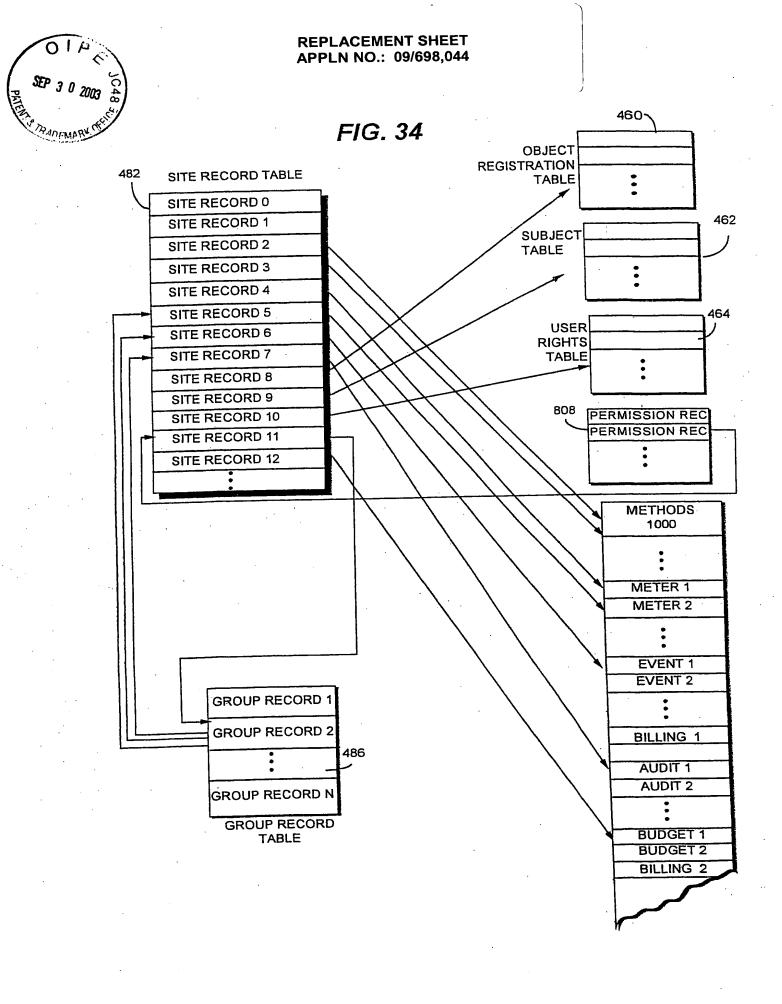


FIG. 34A

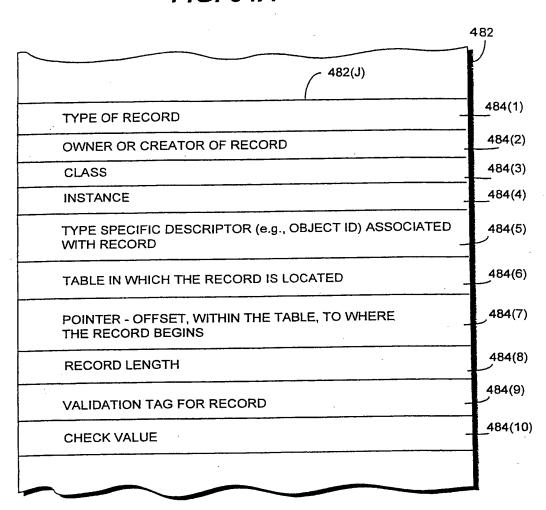
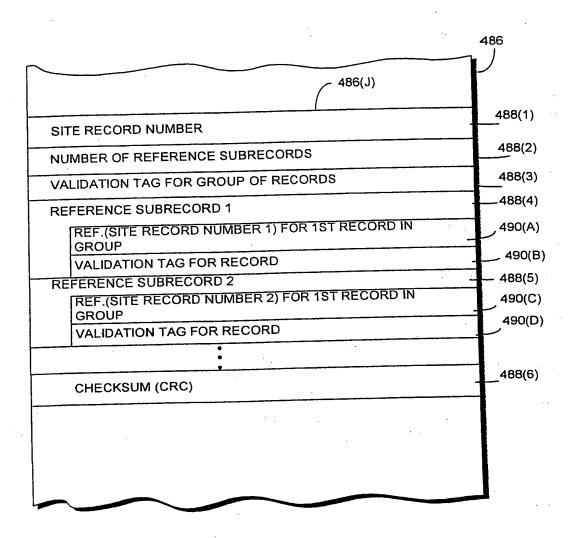
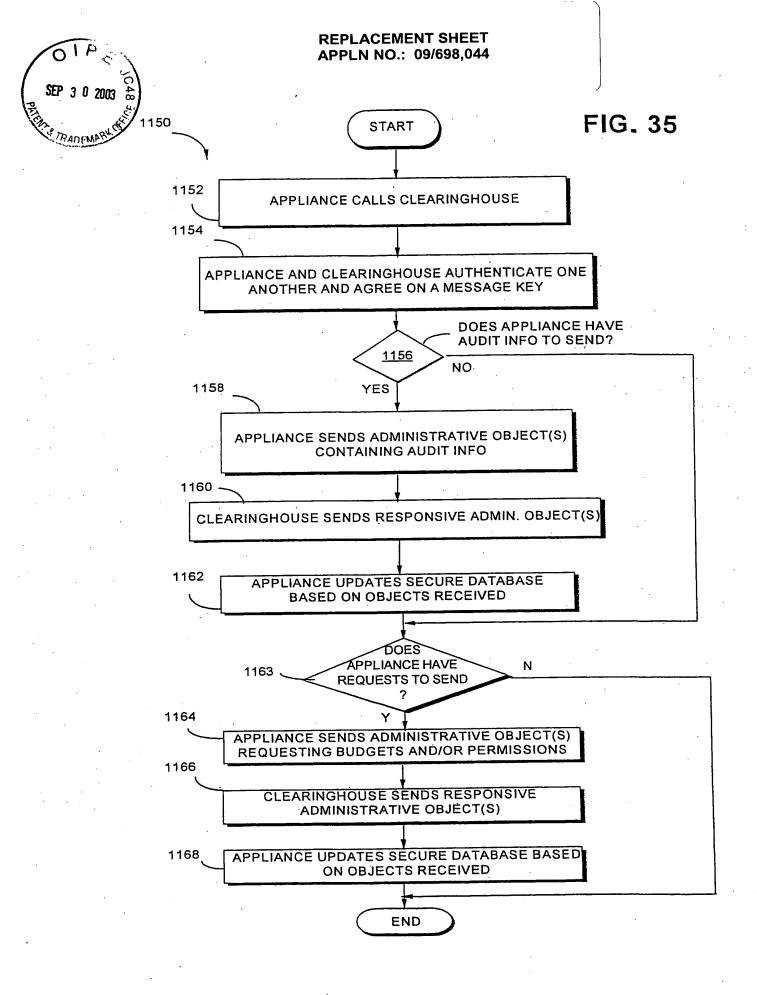
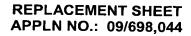




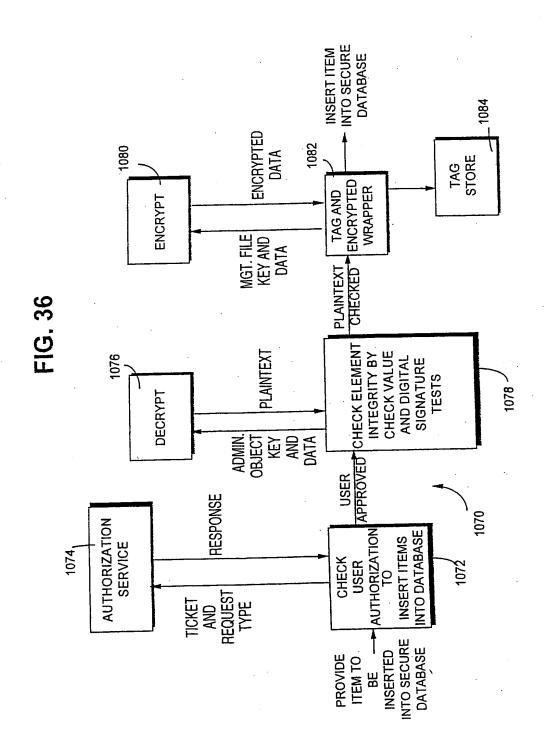
FIG. 34B











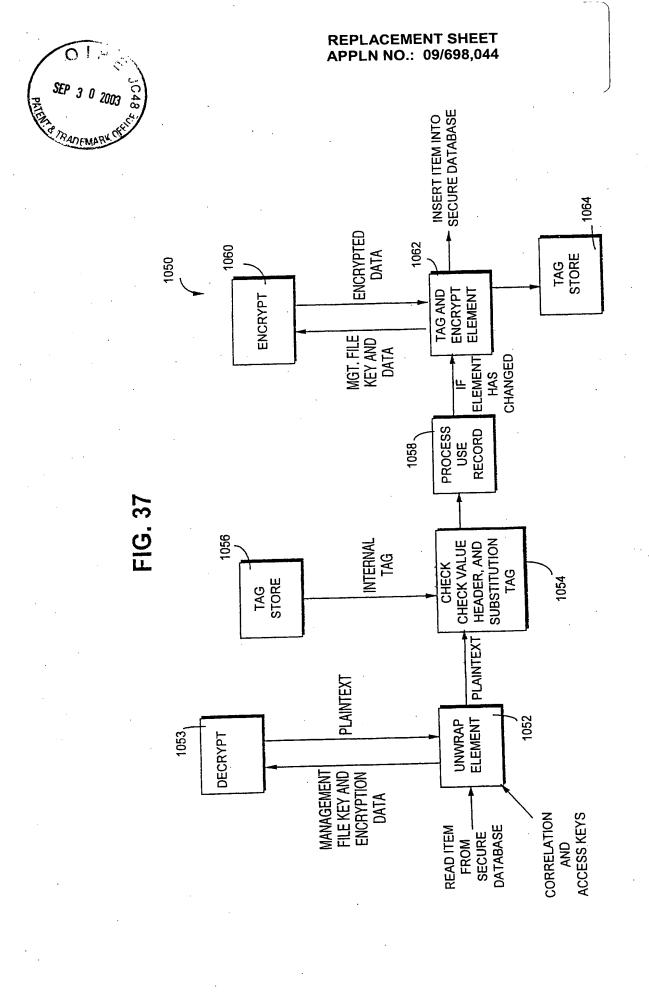
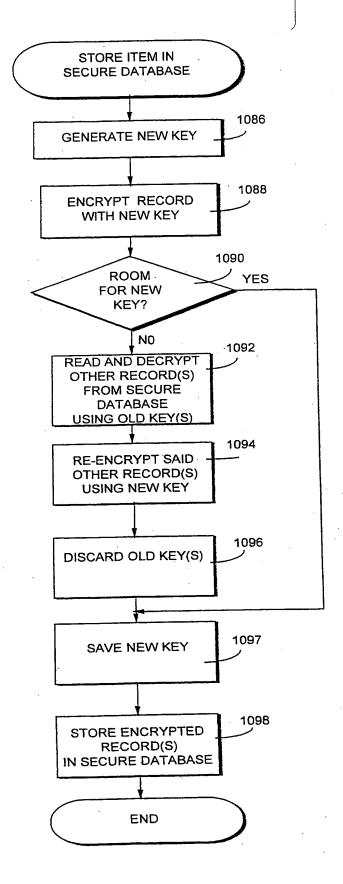
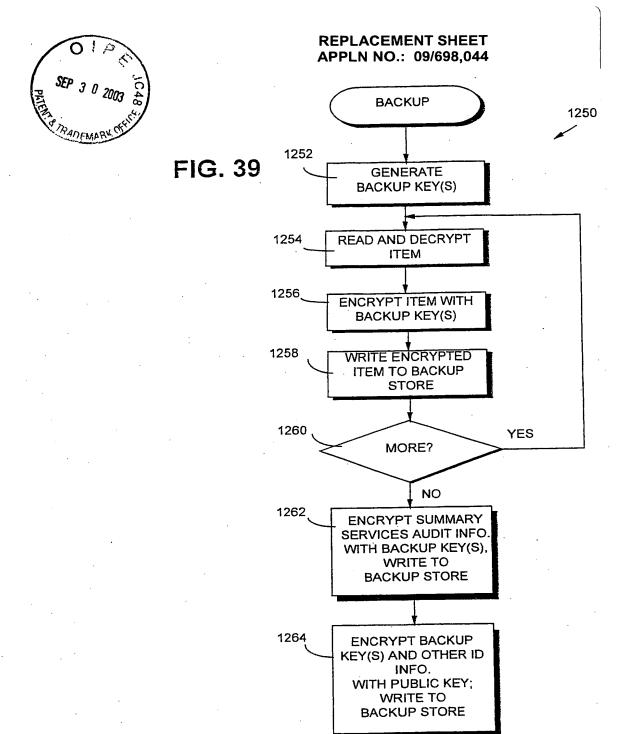




FIG. 38





1266

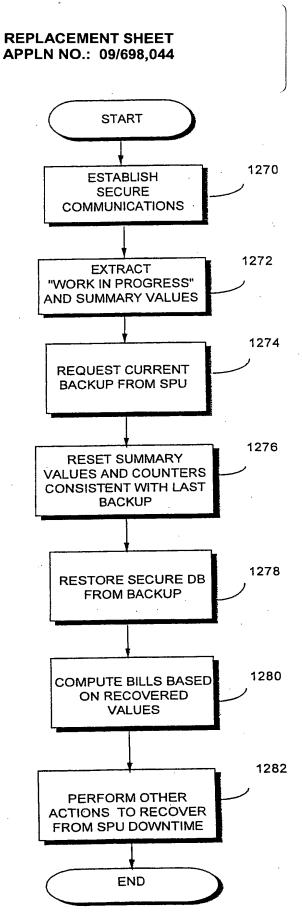
ENCRYPT BACKUP KEY(S) WITH ADMIN. KEY; WRITE TO BACKUP STORE

DONE



FIG. 40

1268





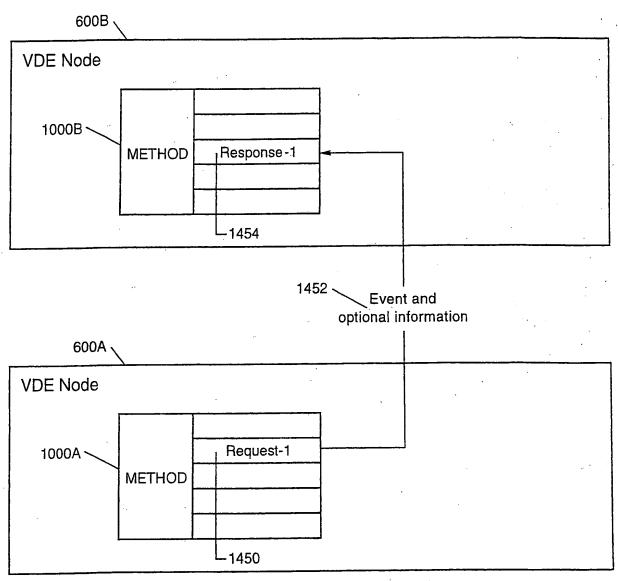


FIG. 41a



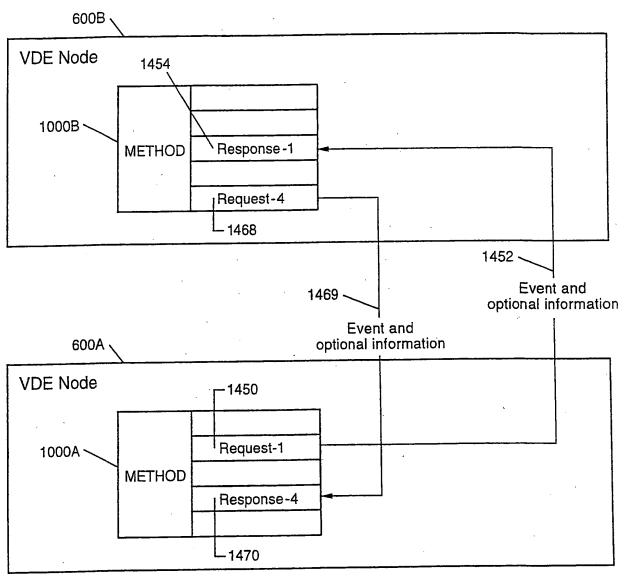
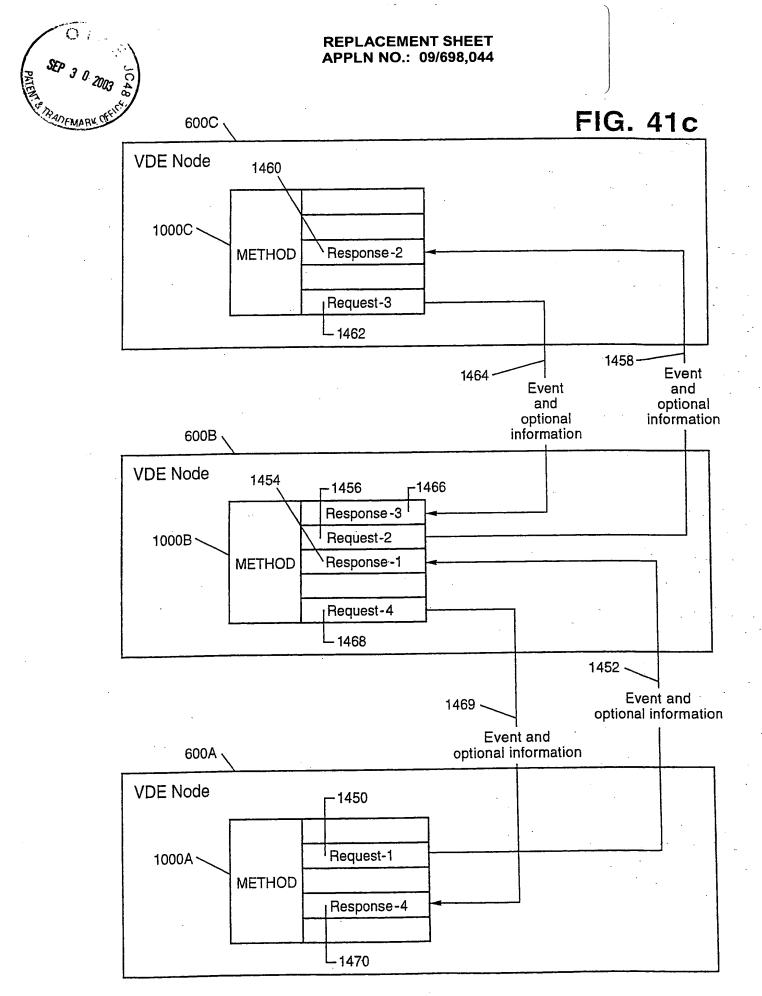
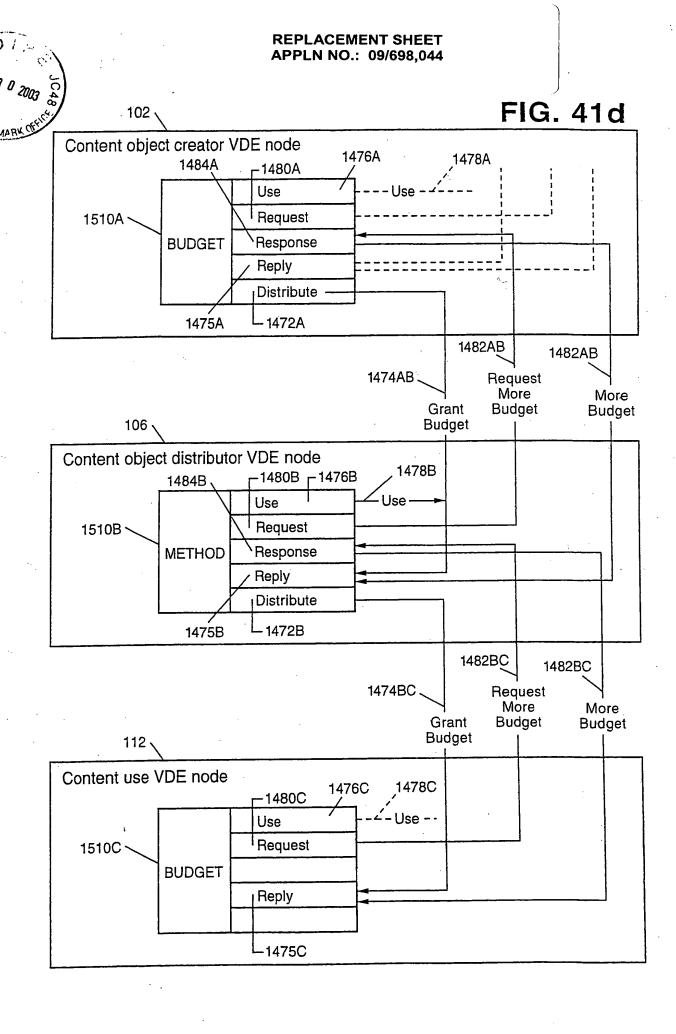
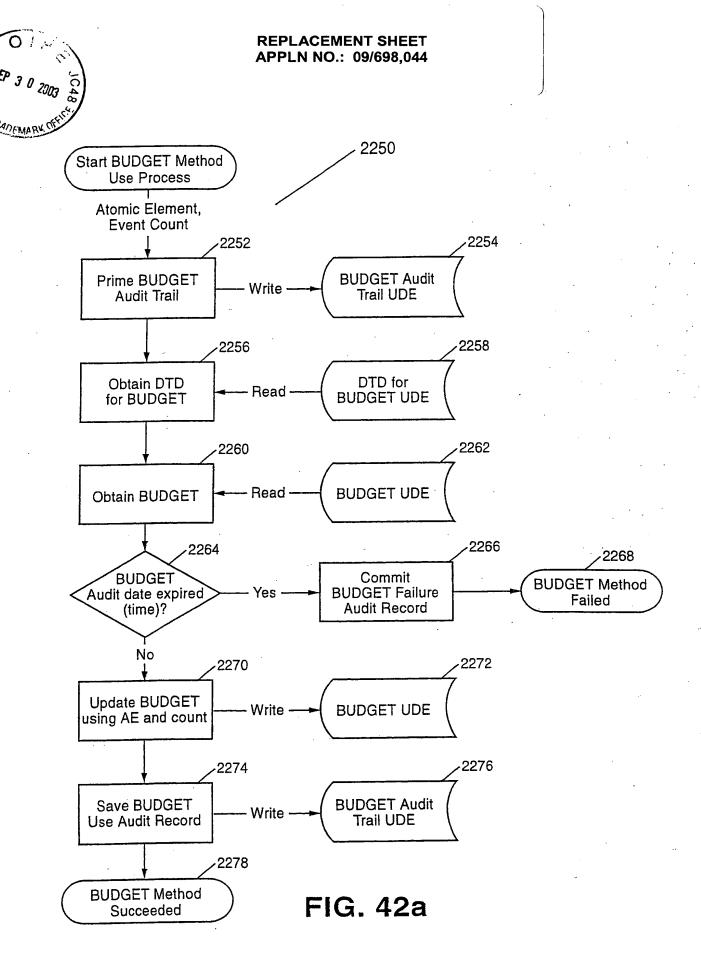
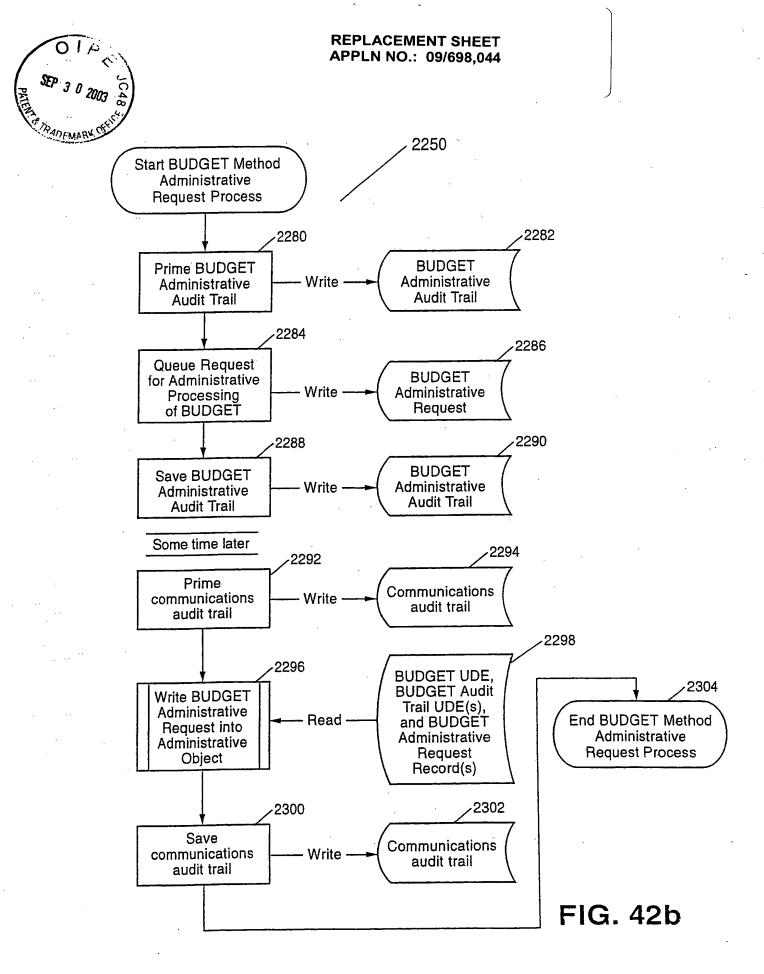


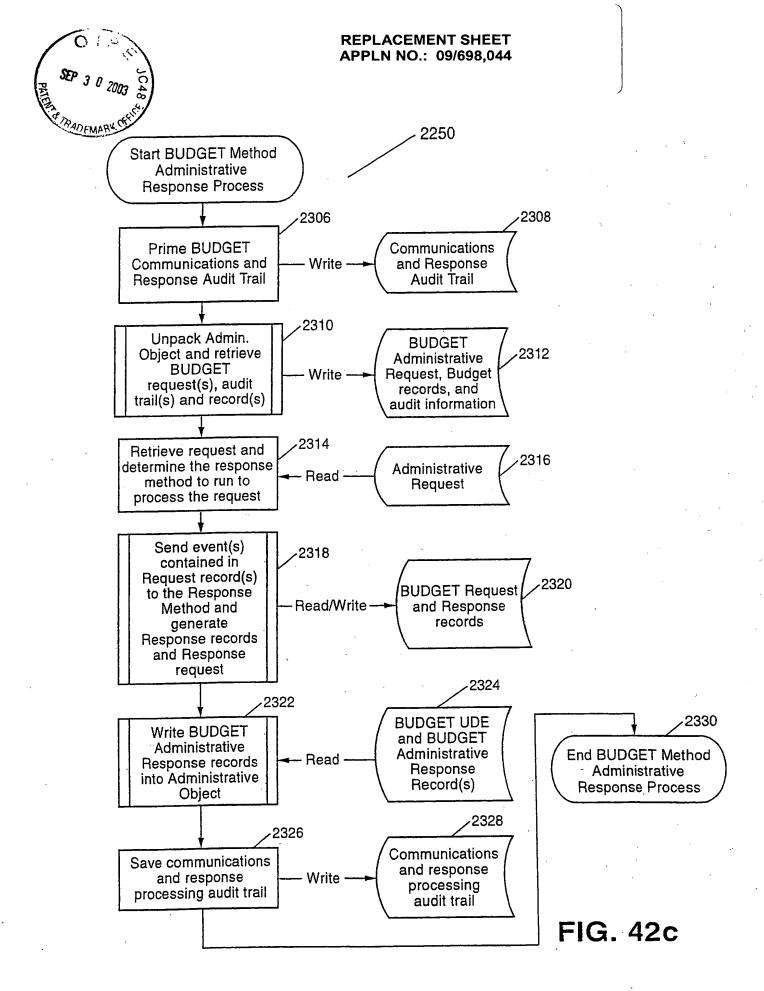
FIG. 41b

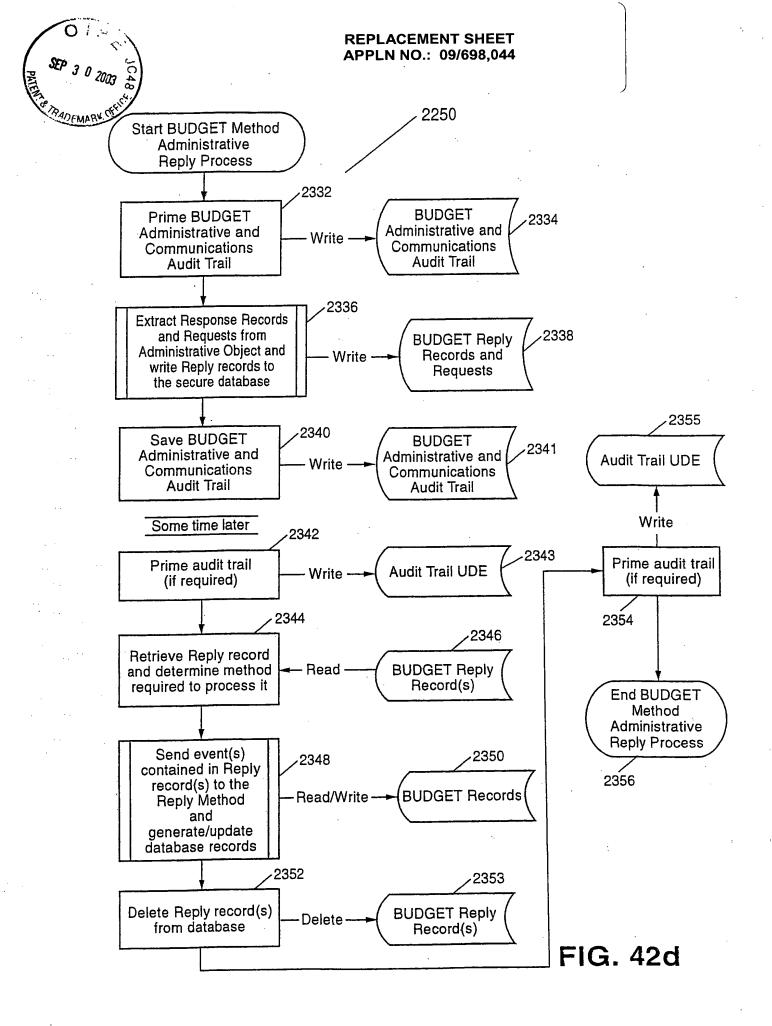












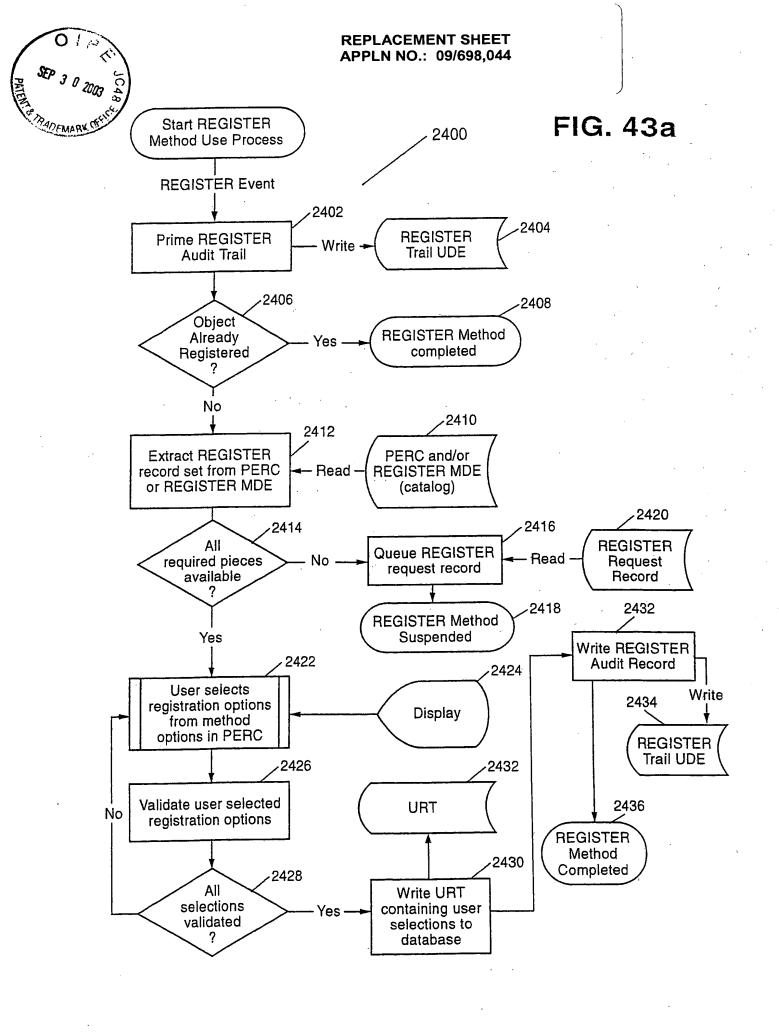
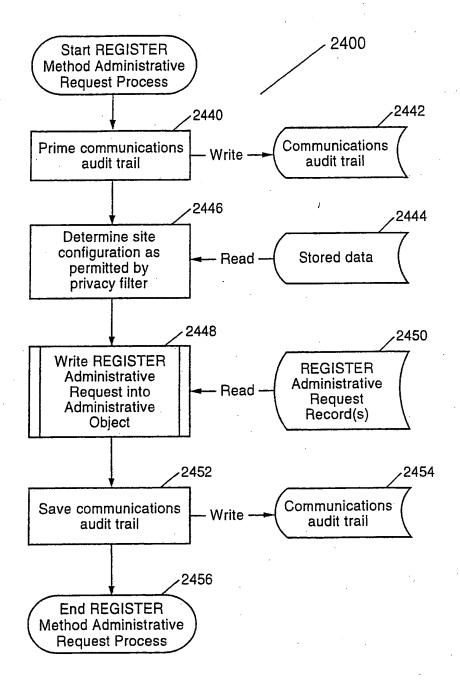
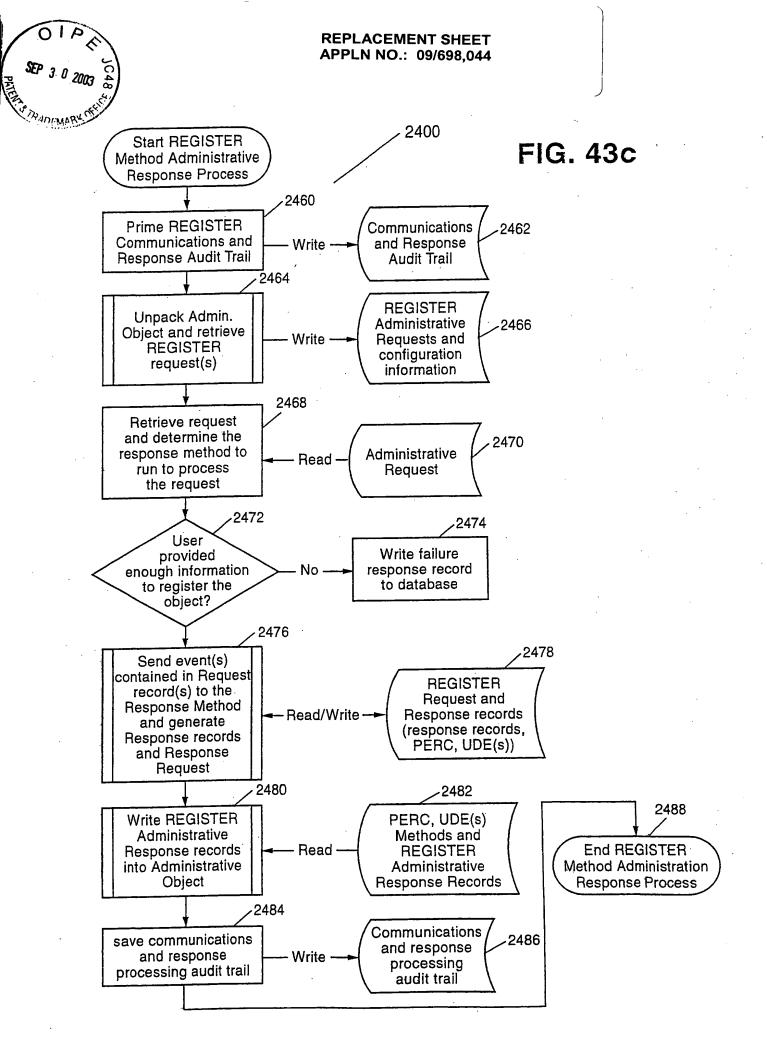
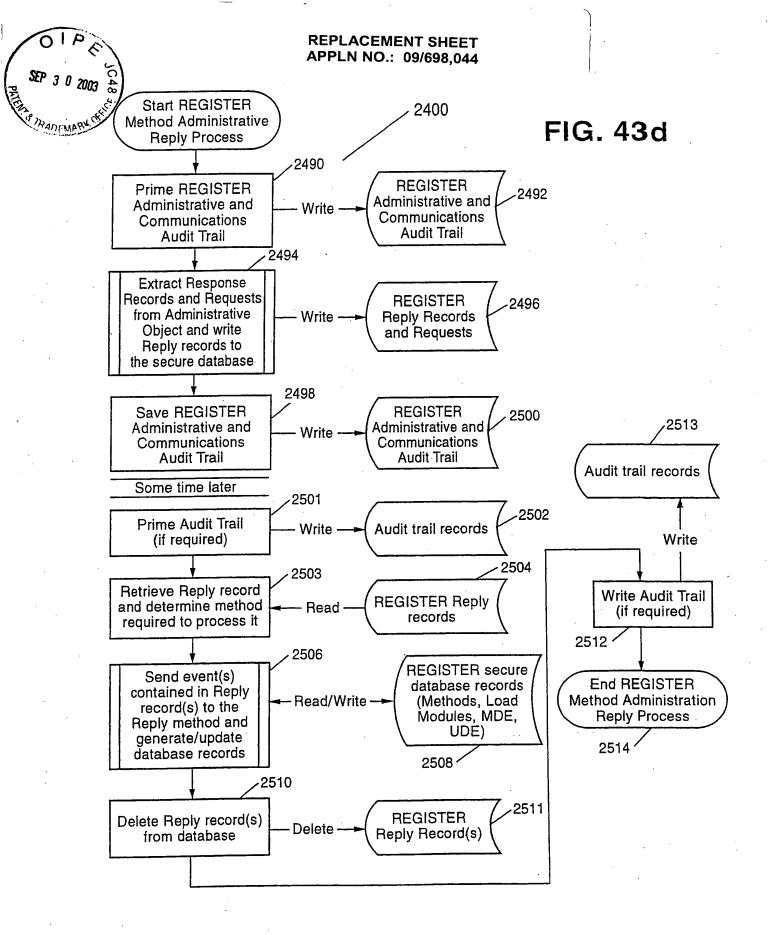


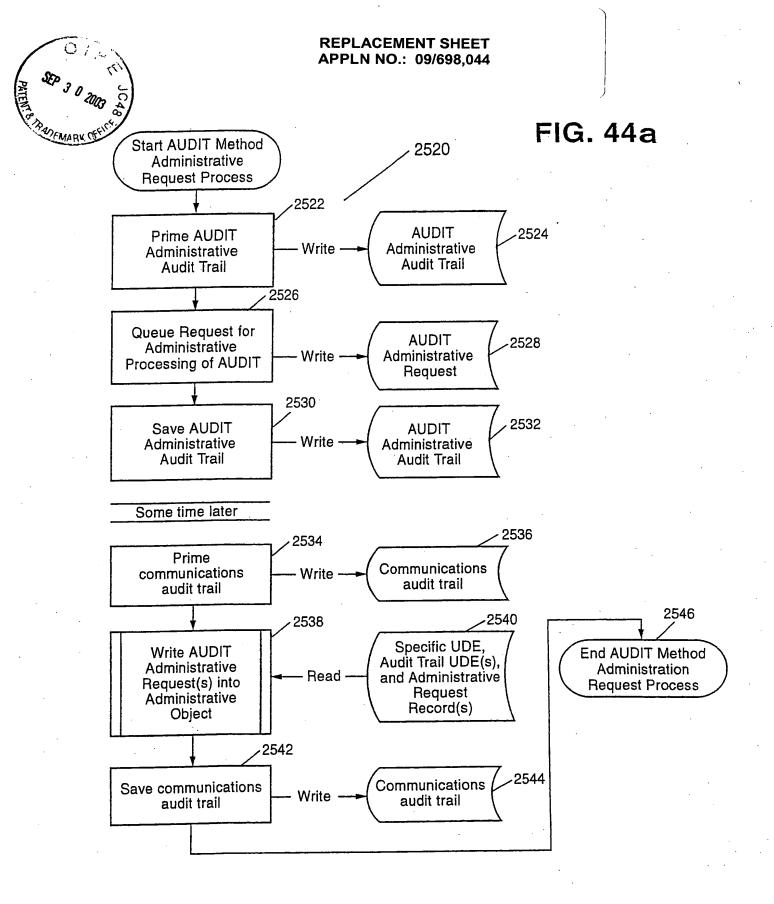


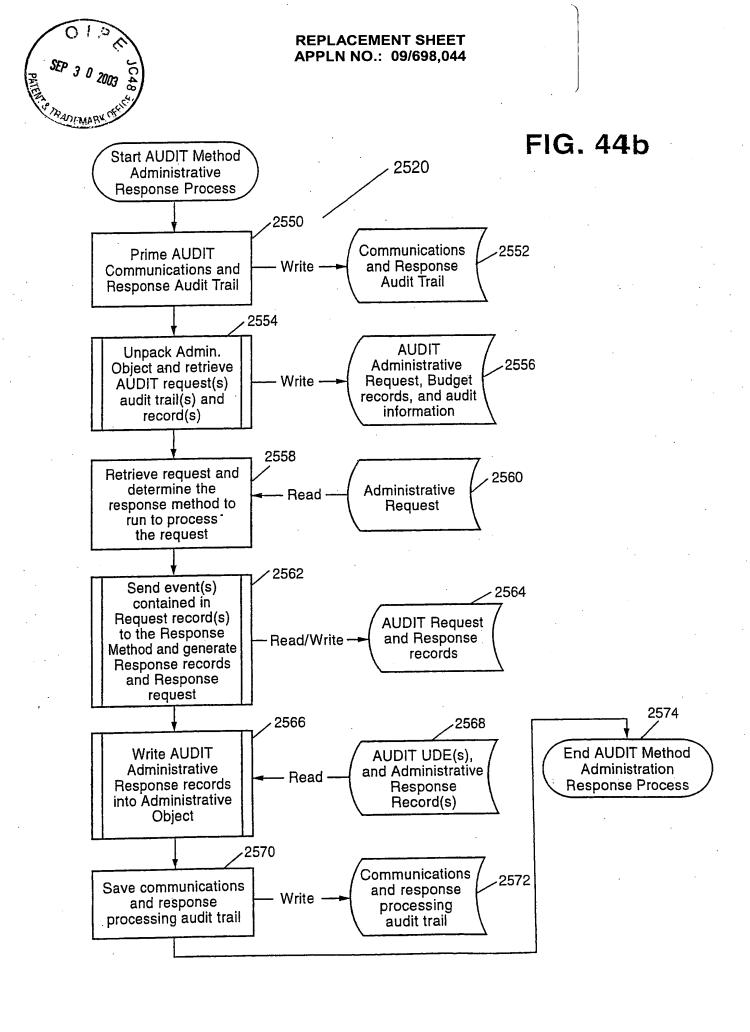
FIG. 43b

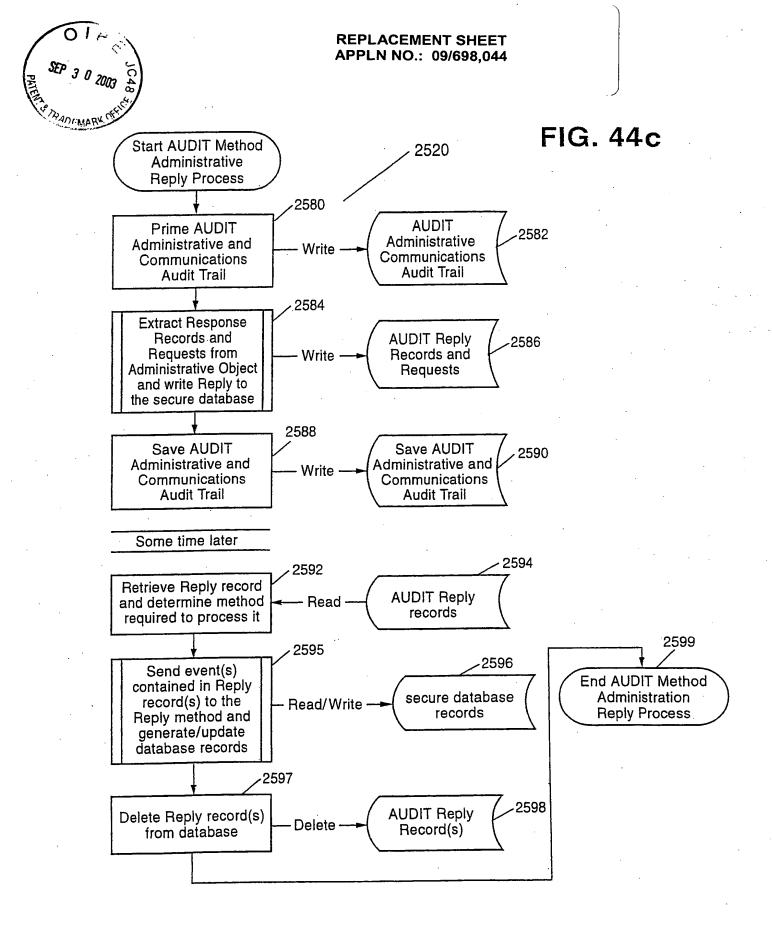












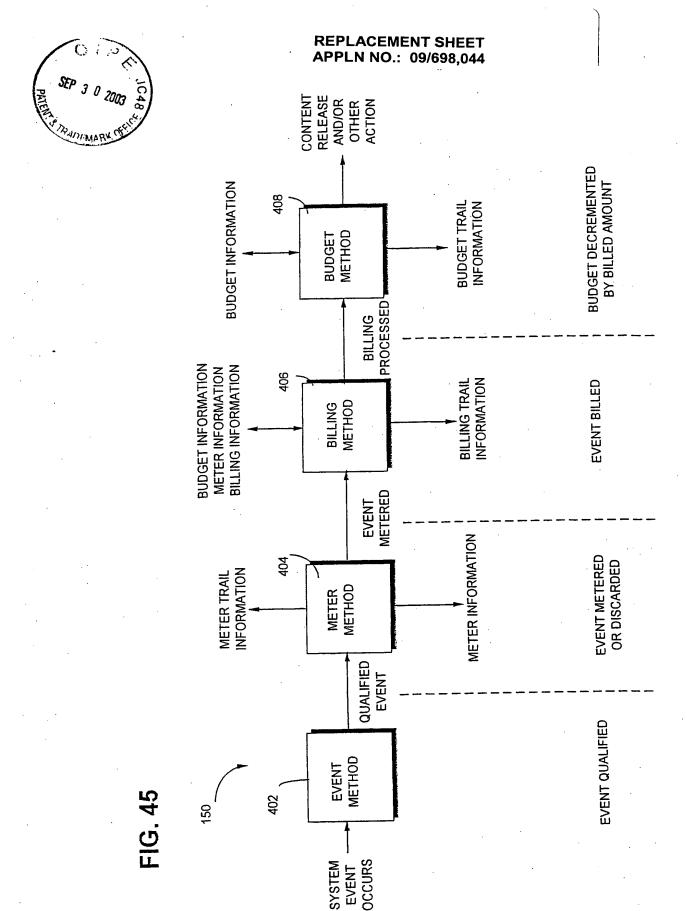
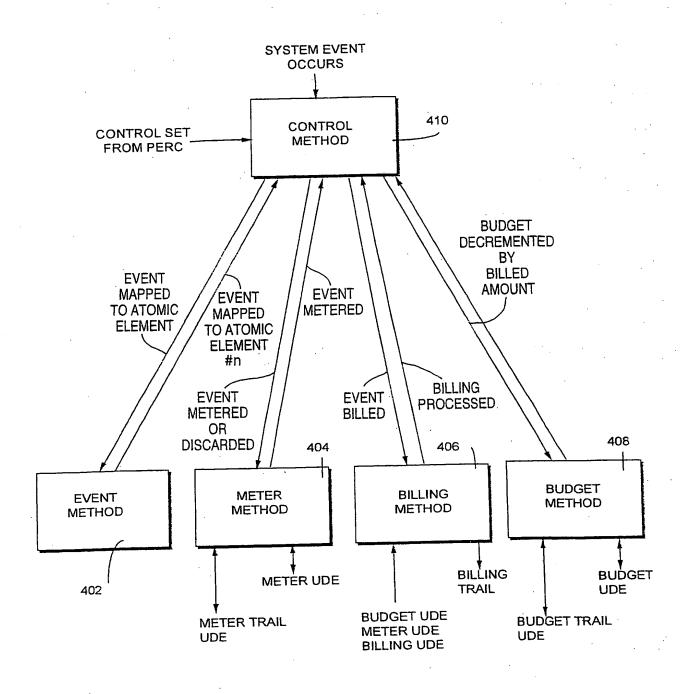
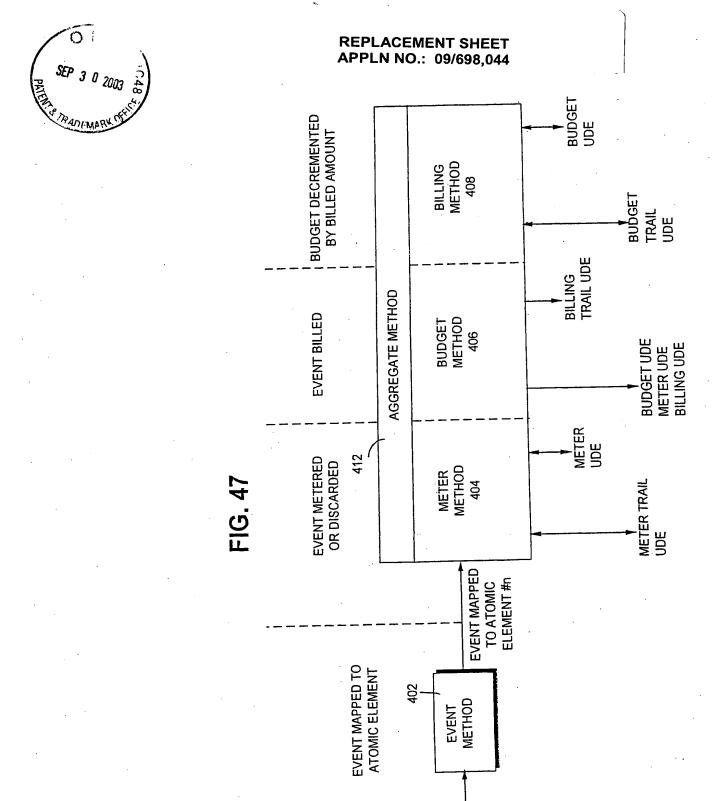
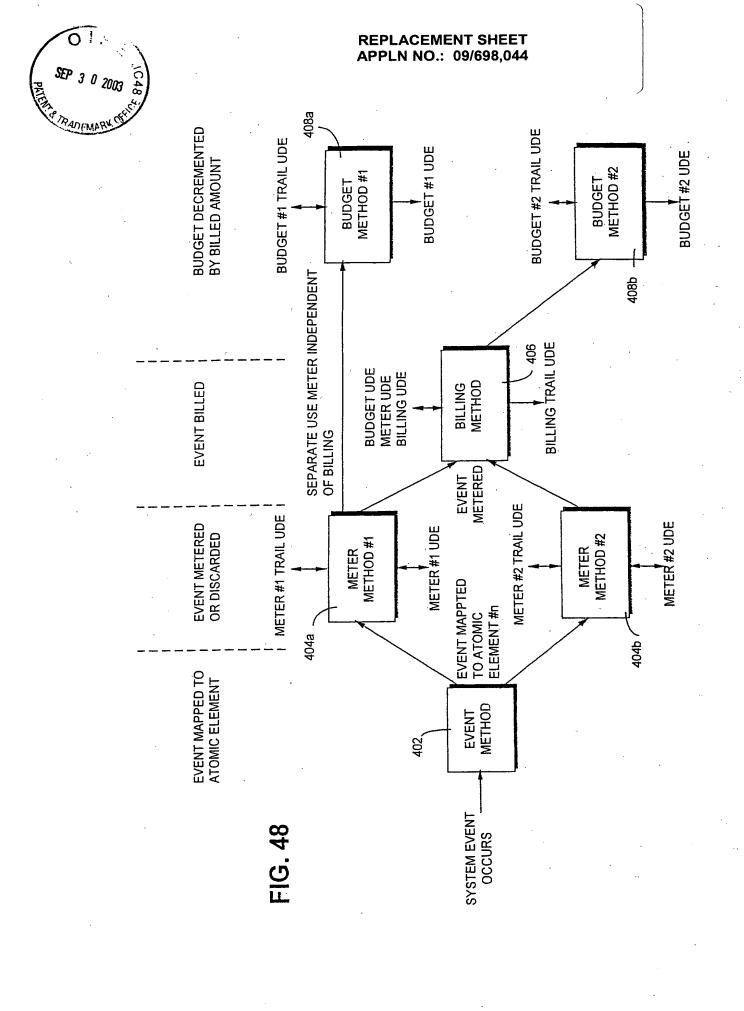


FIG. 46

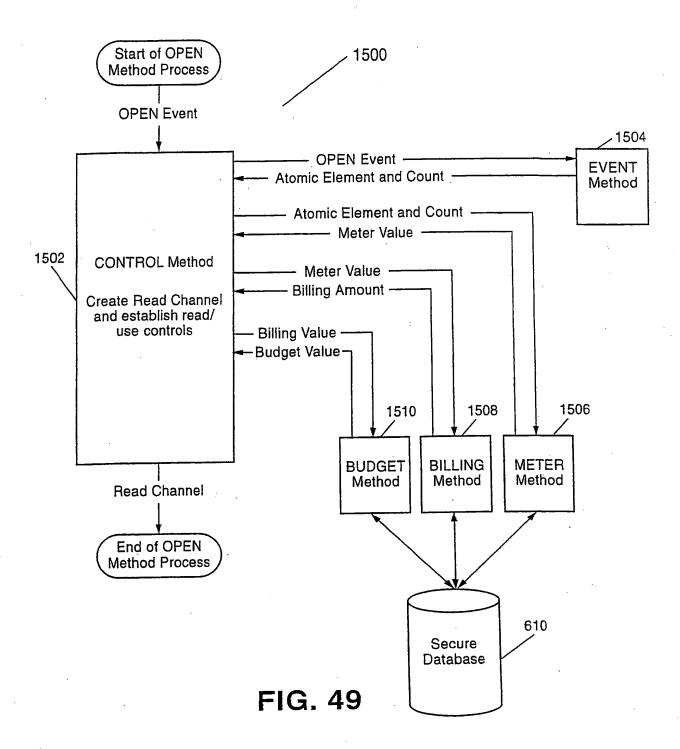


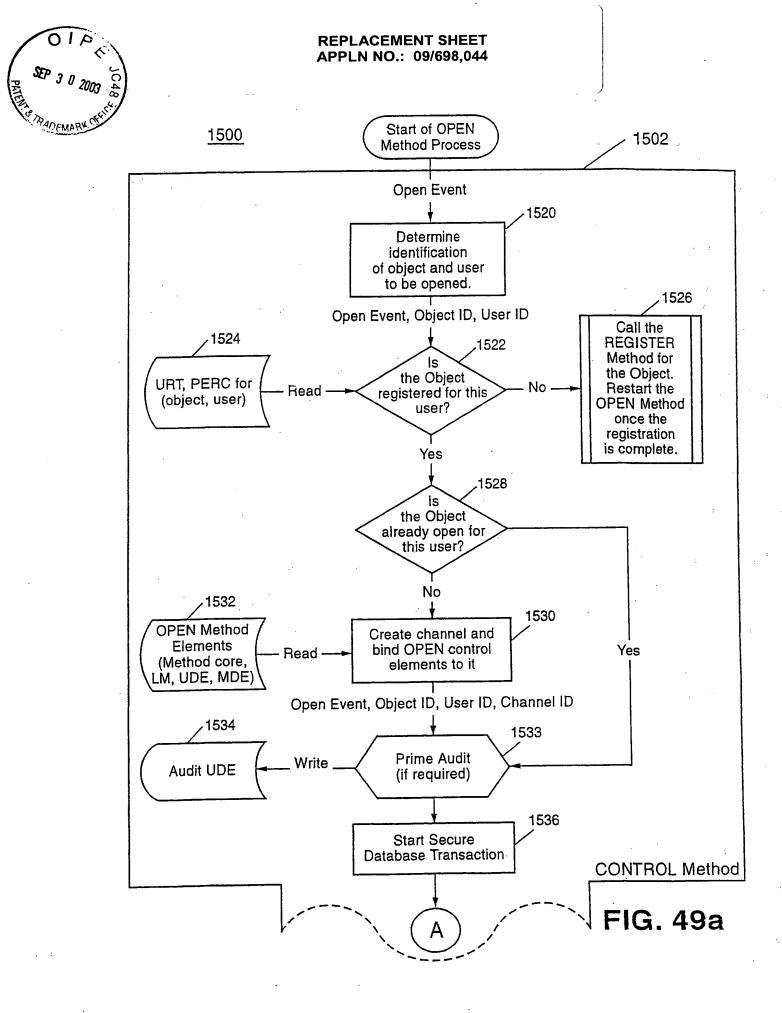


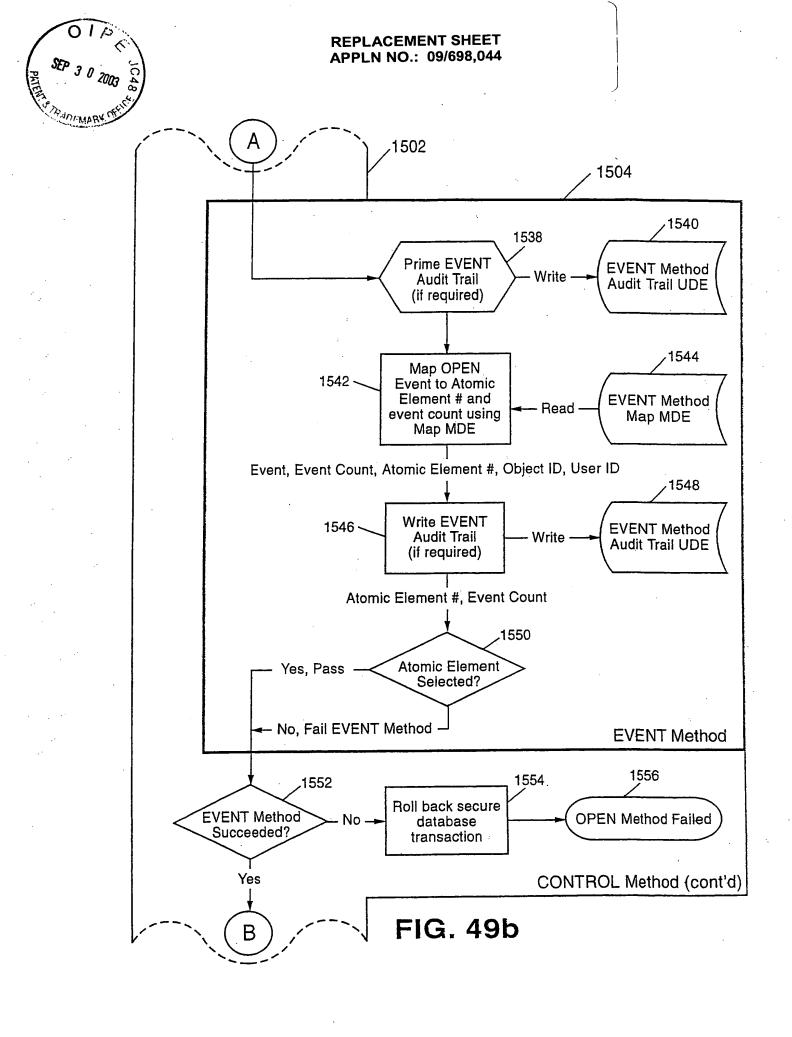
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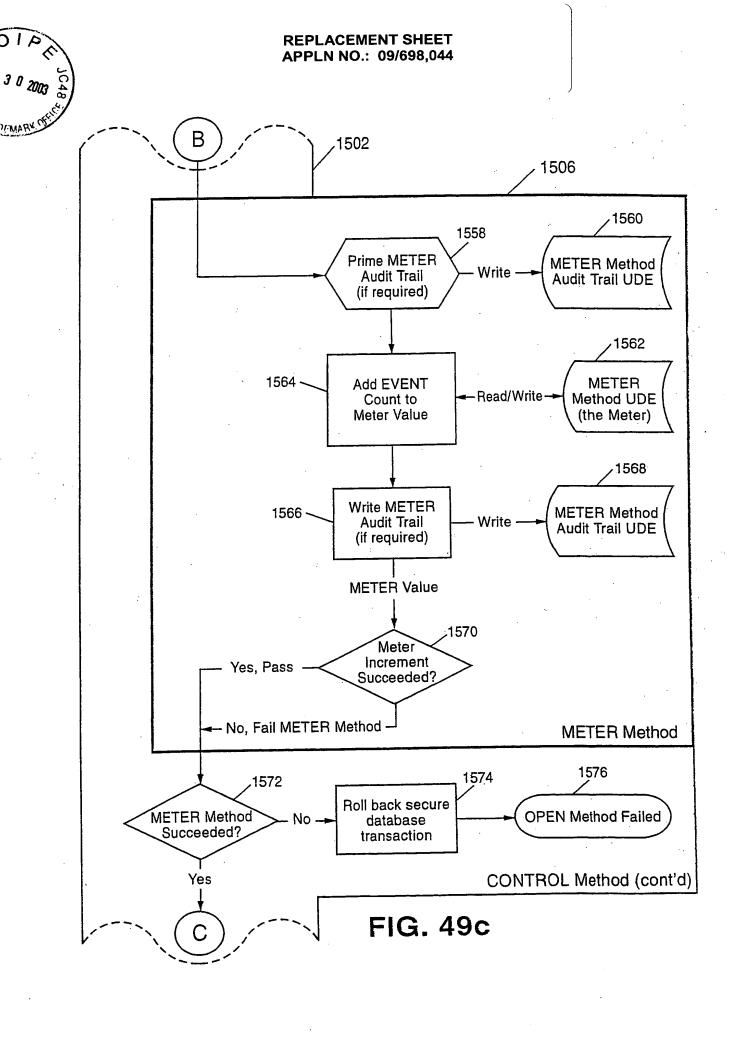


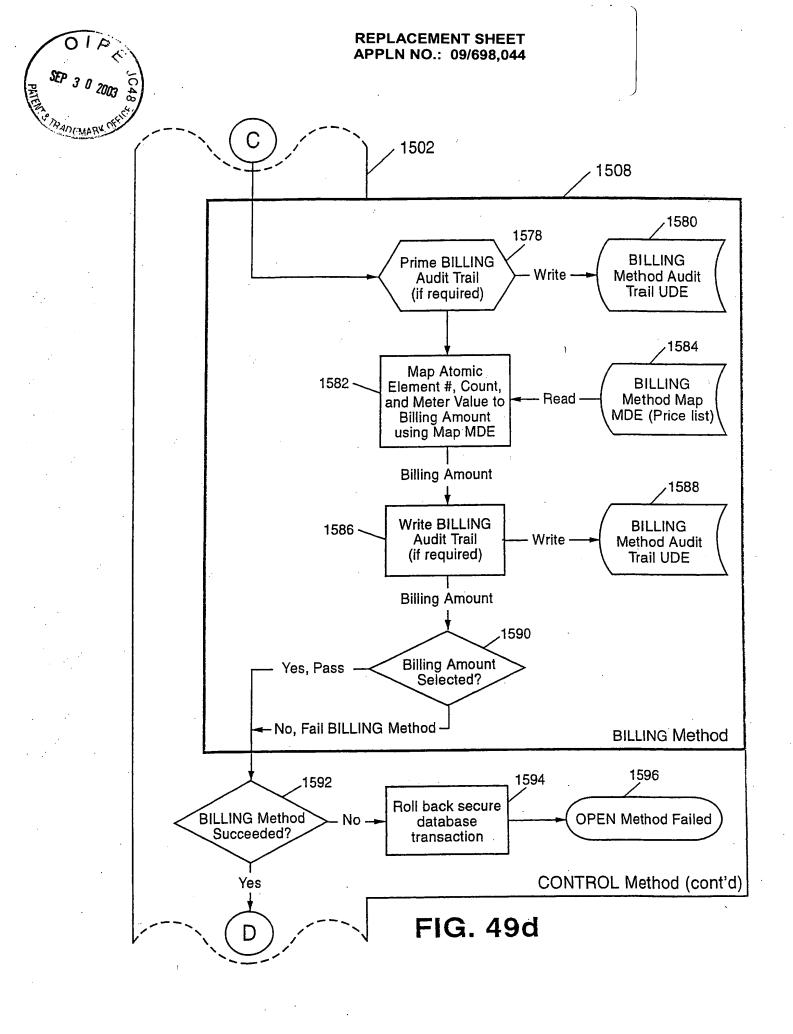


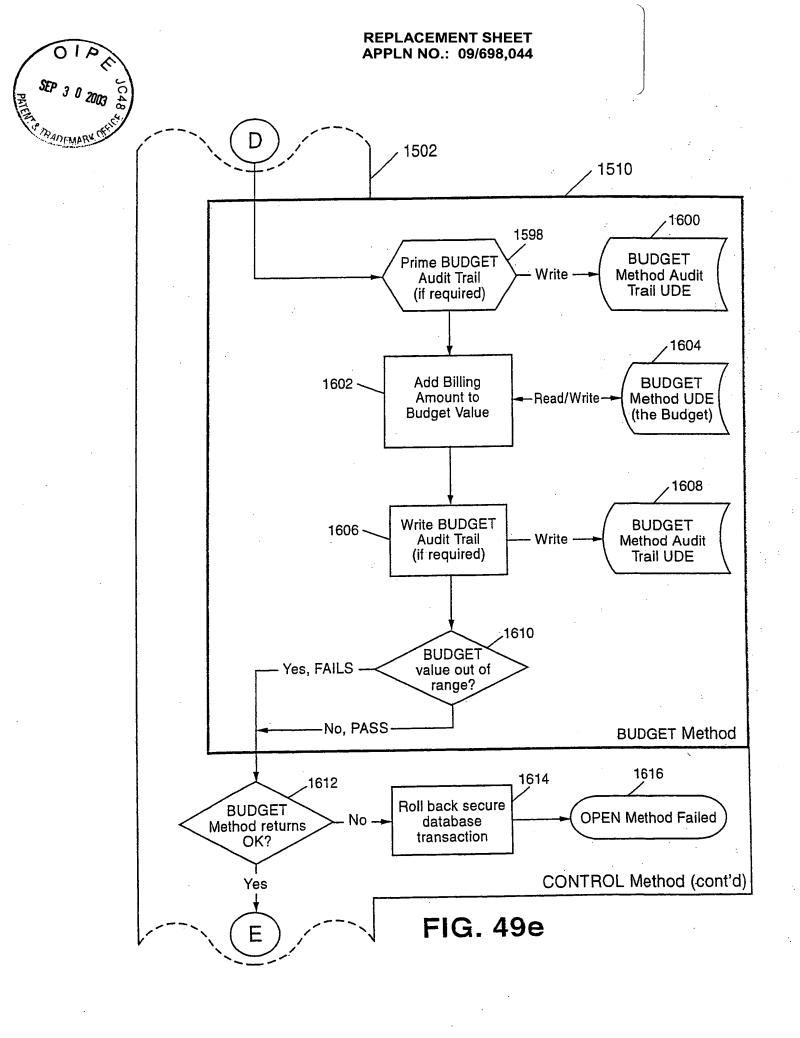


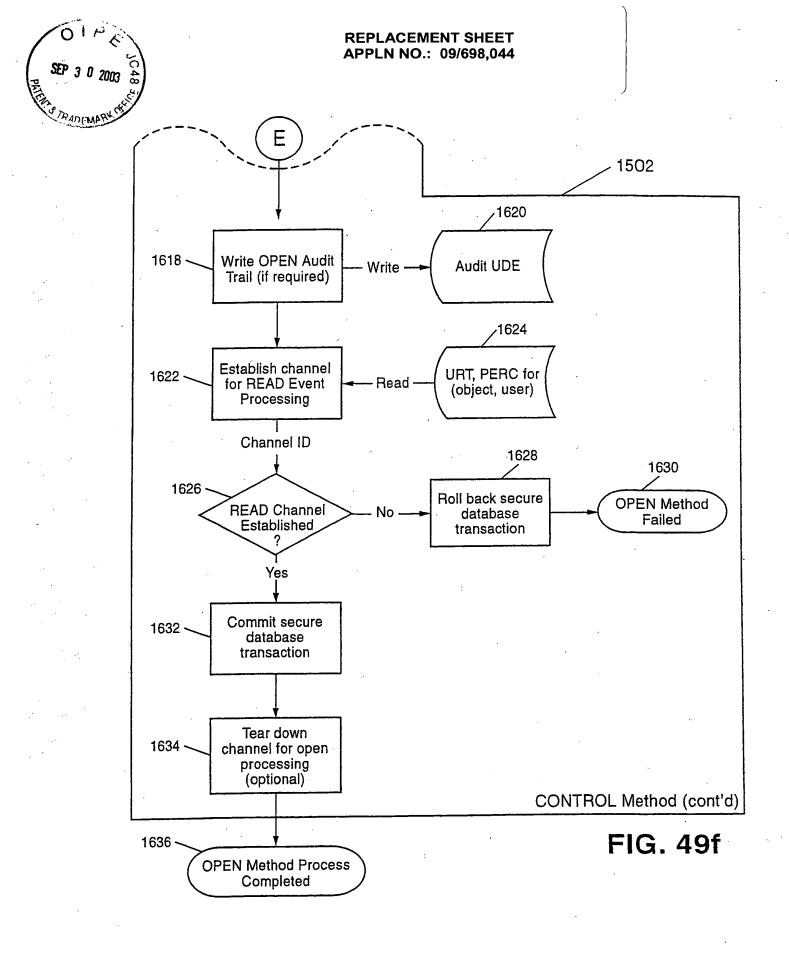


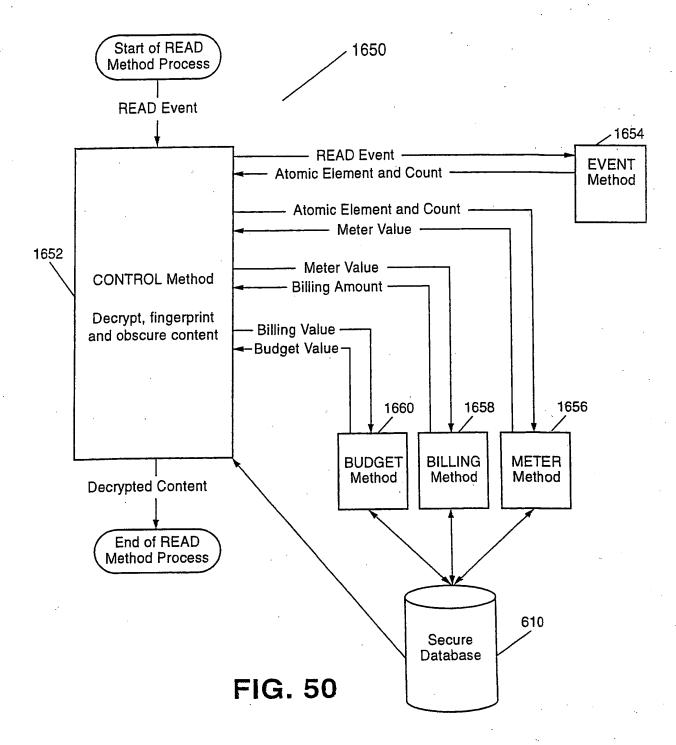




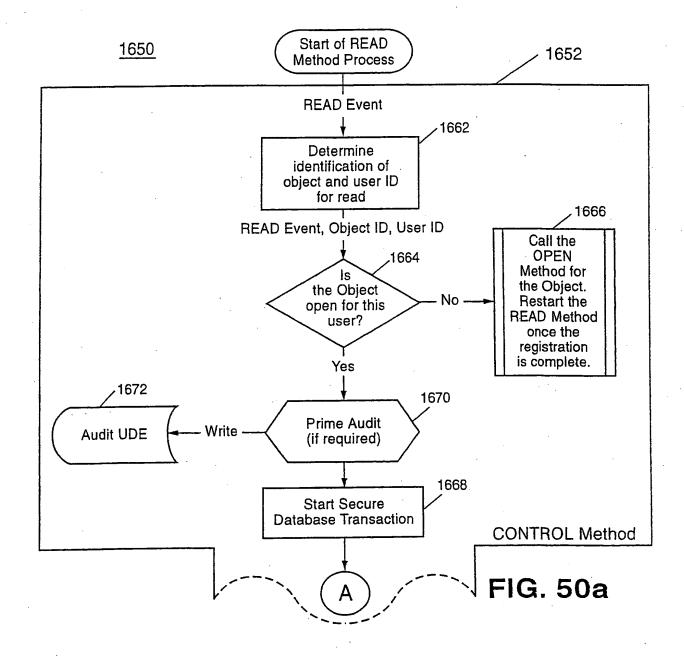


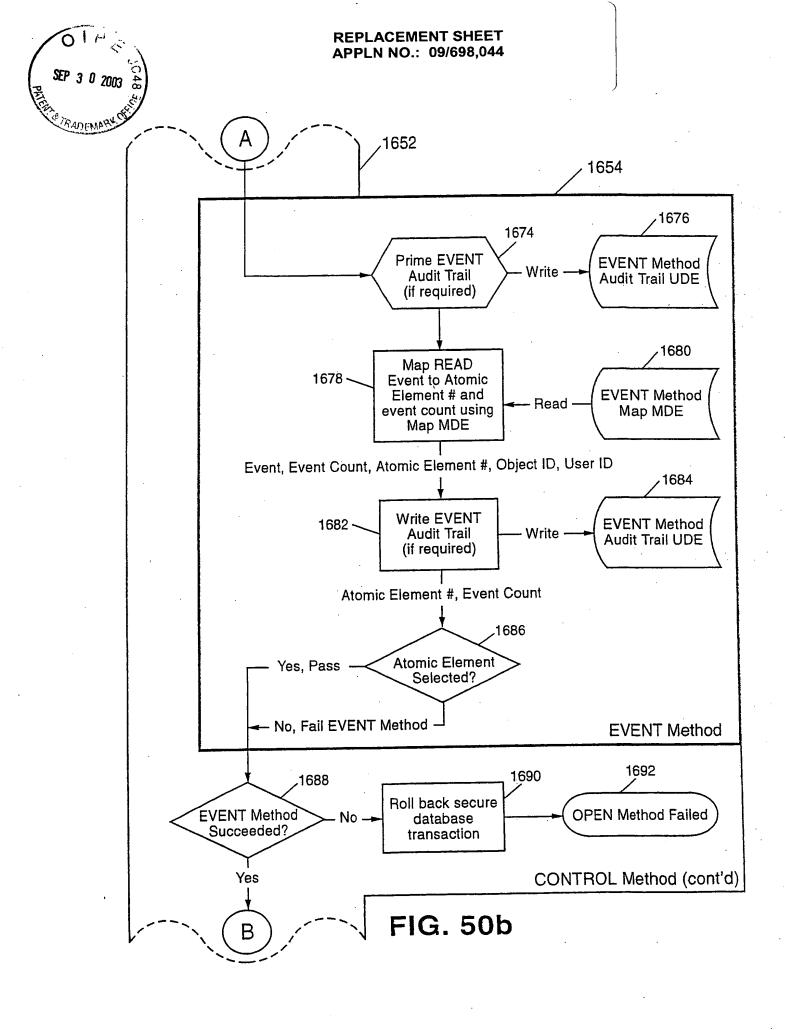


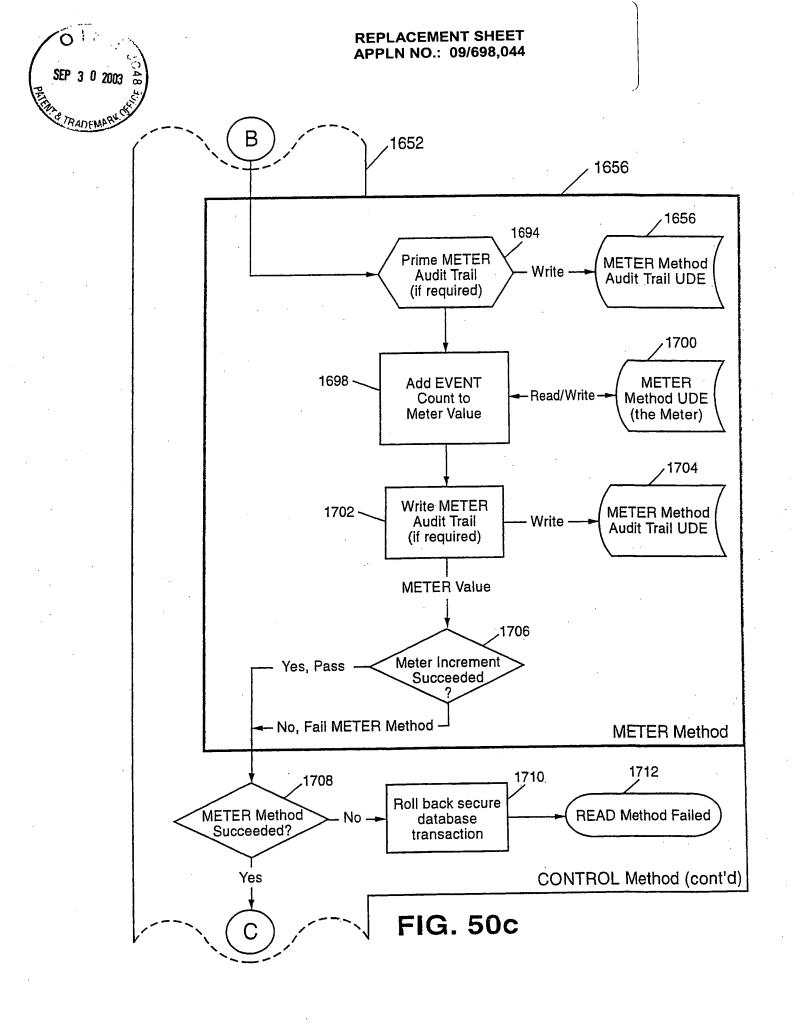




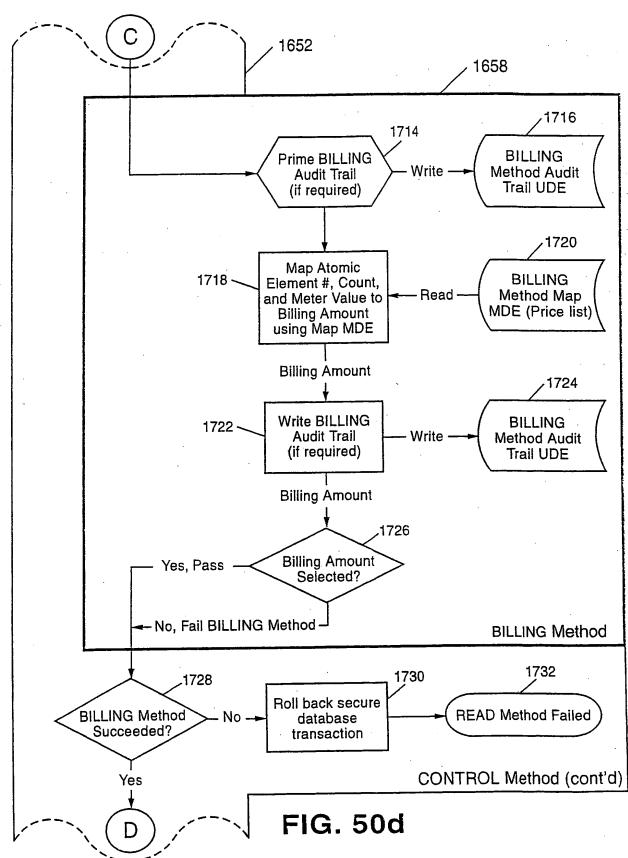


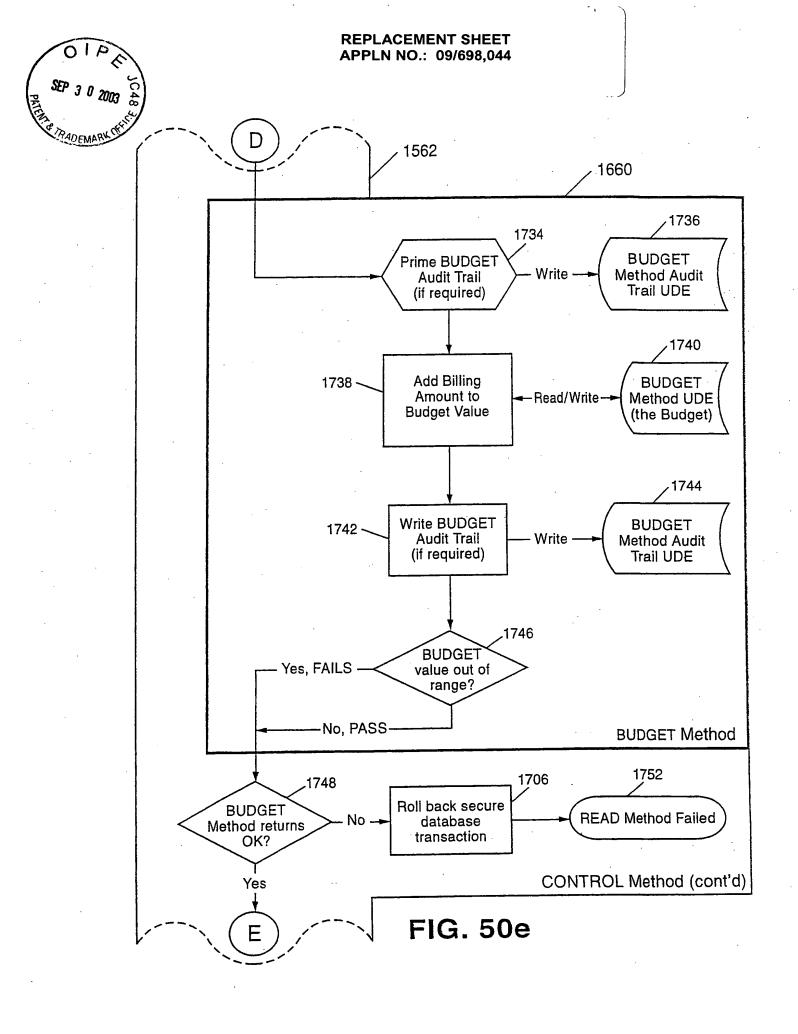


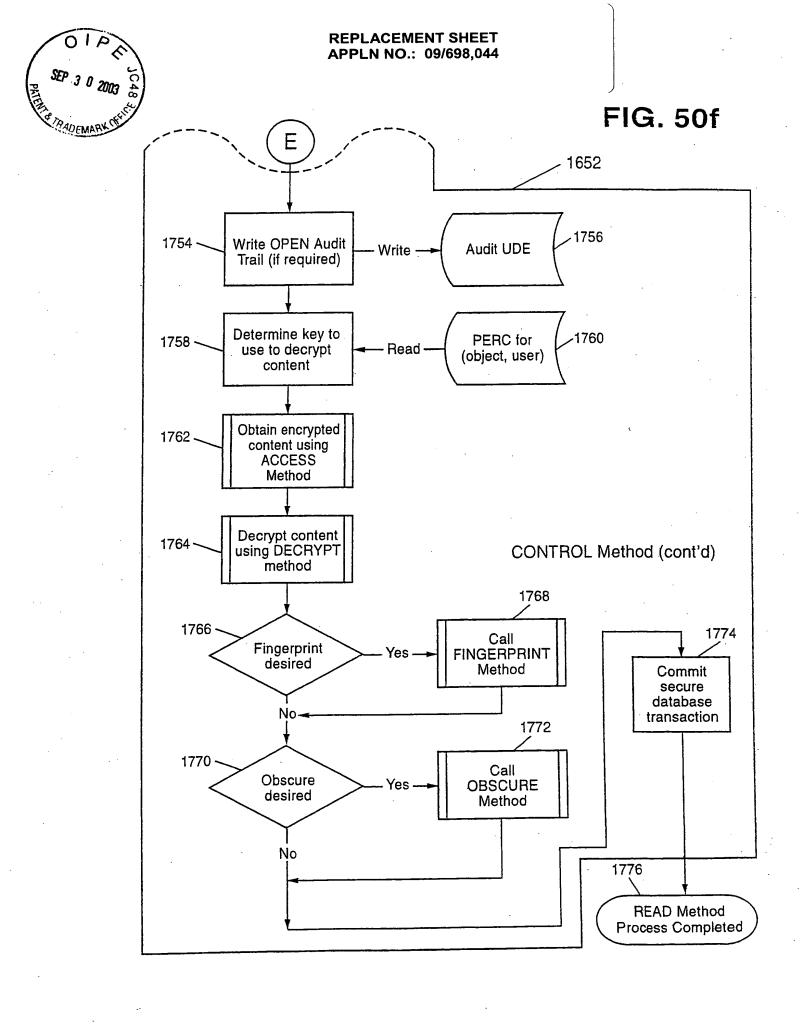




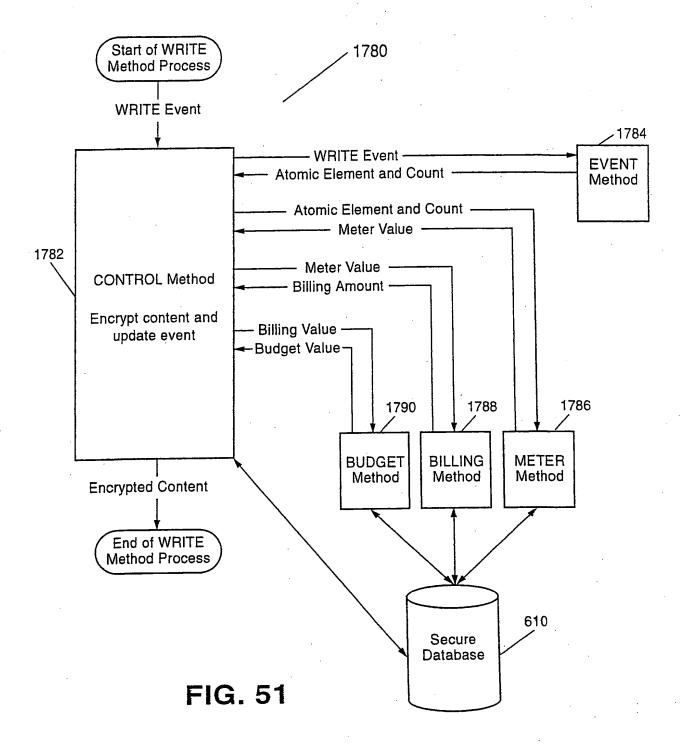




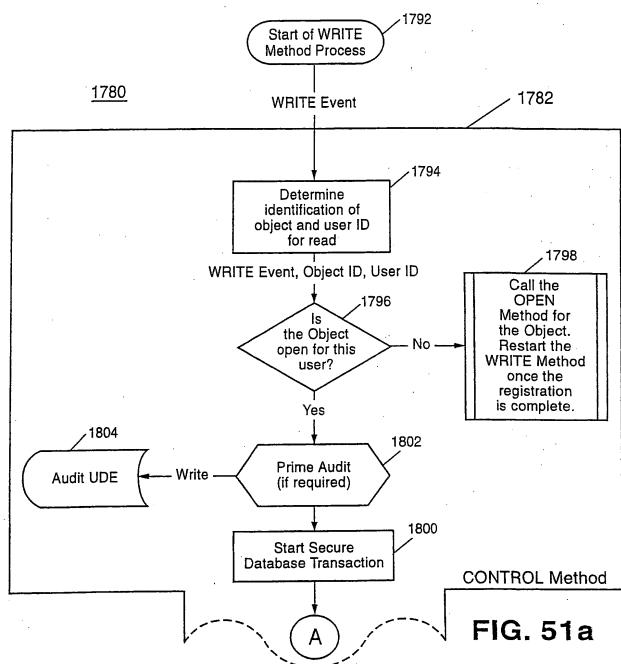


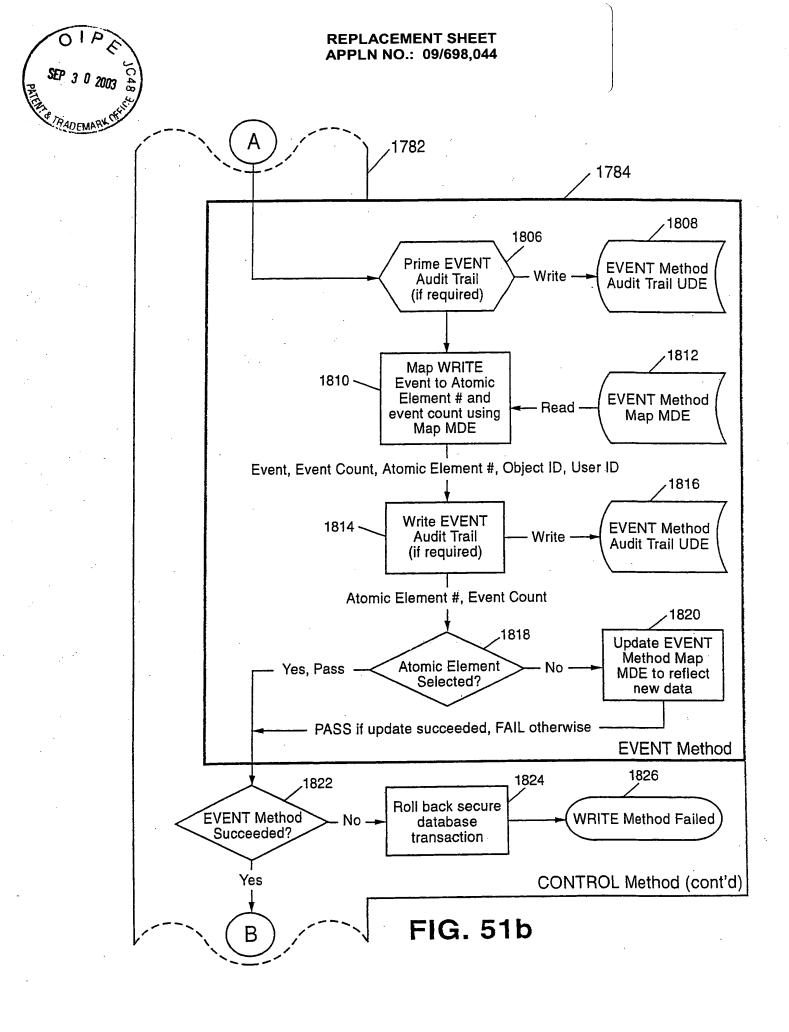


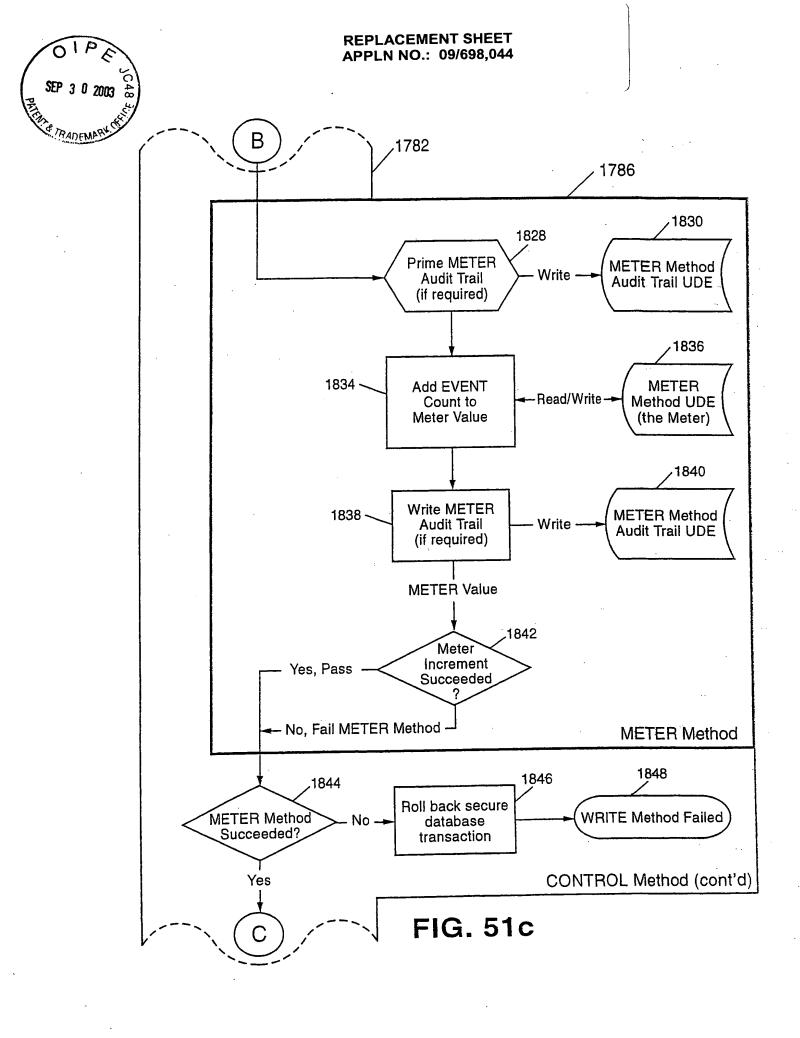


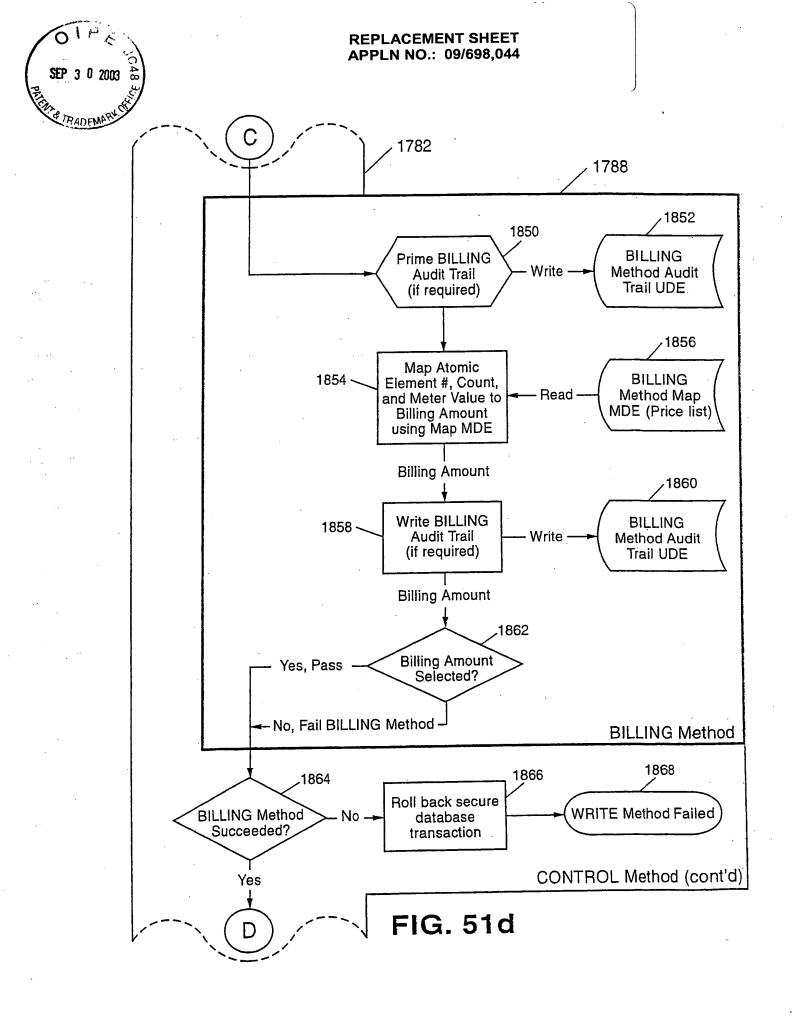


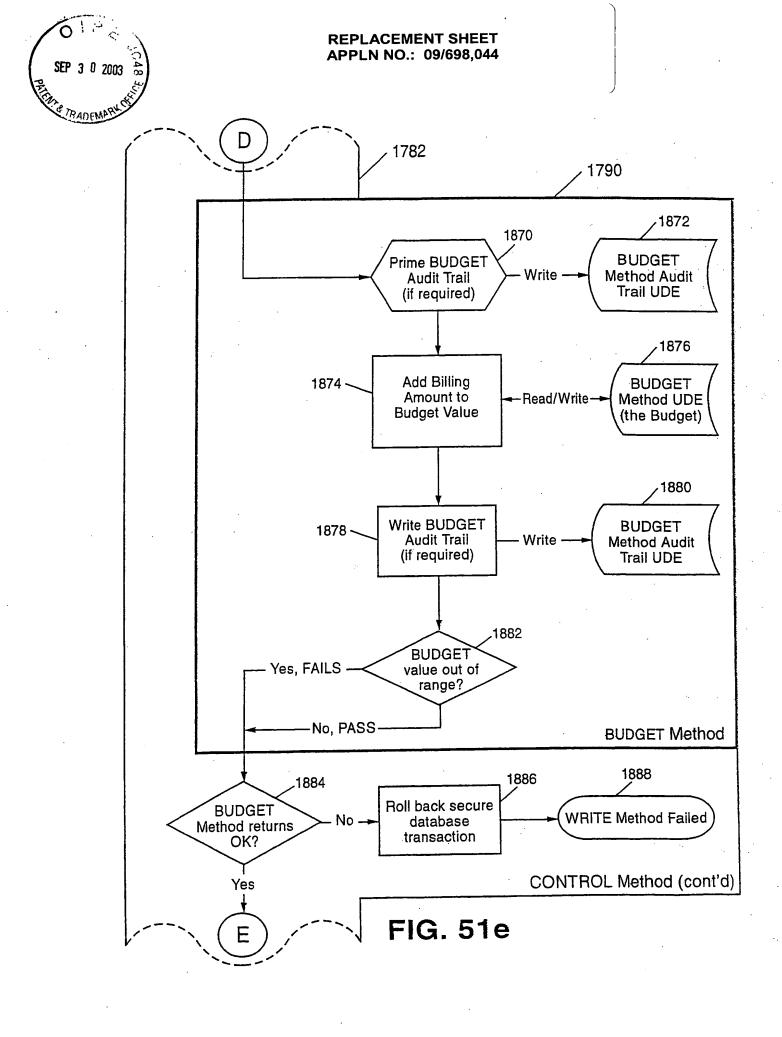


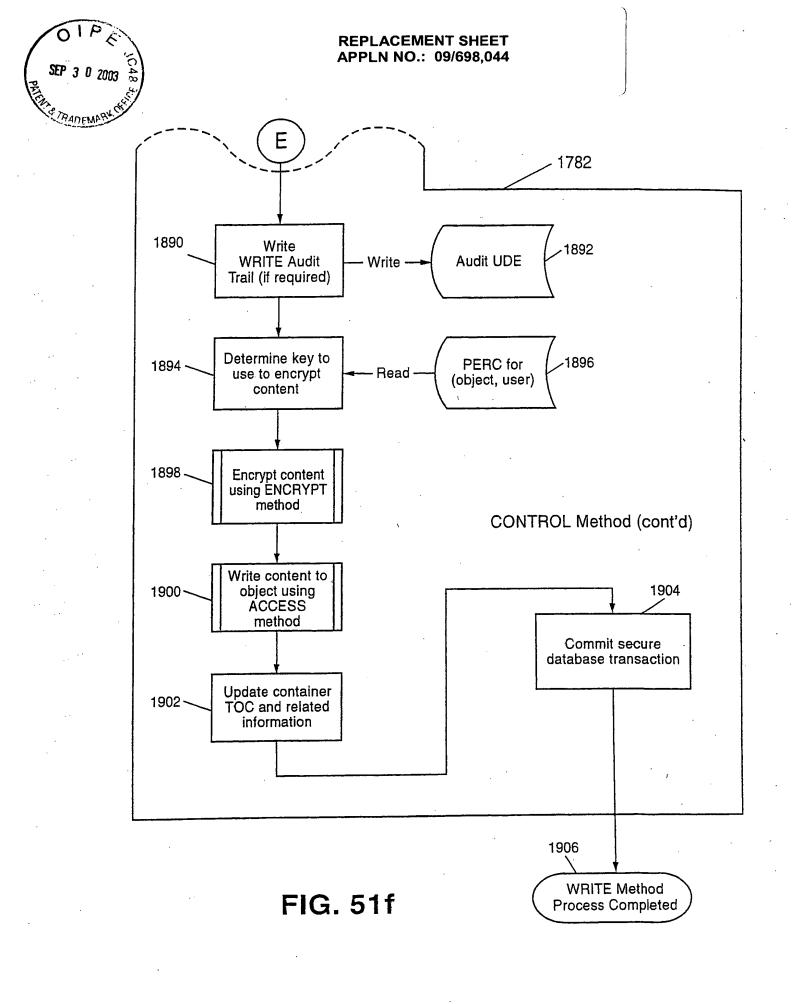




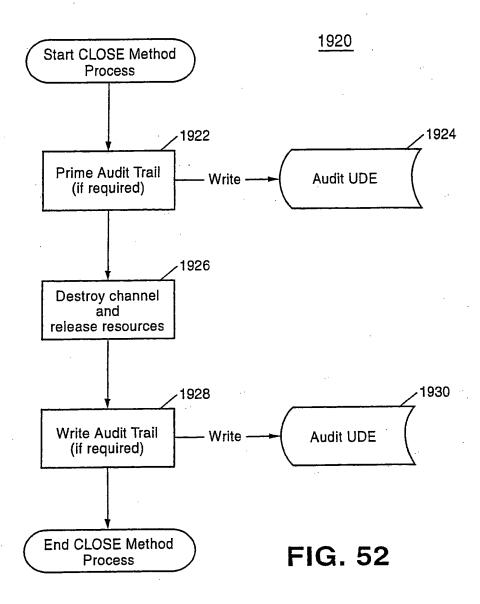




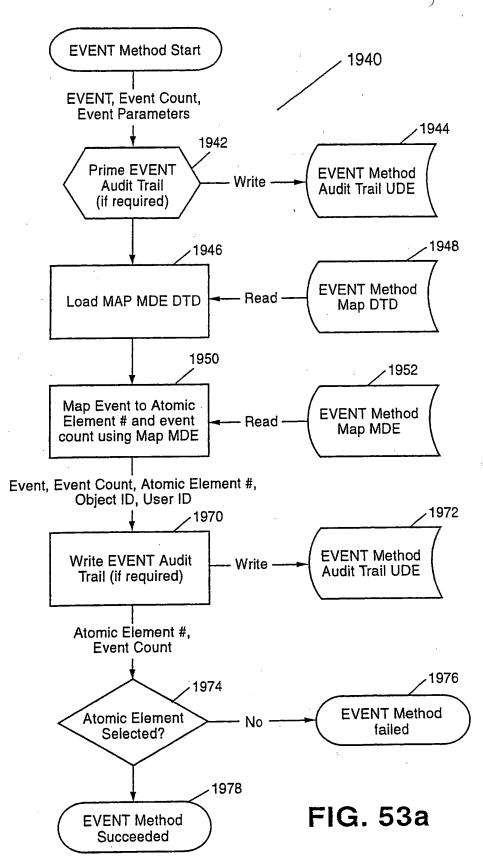




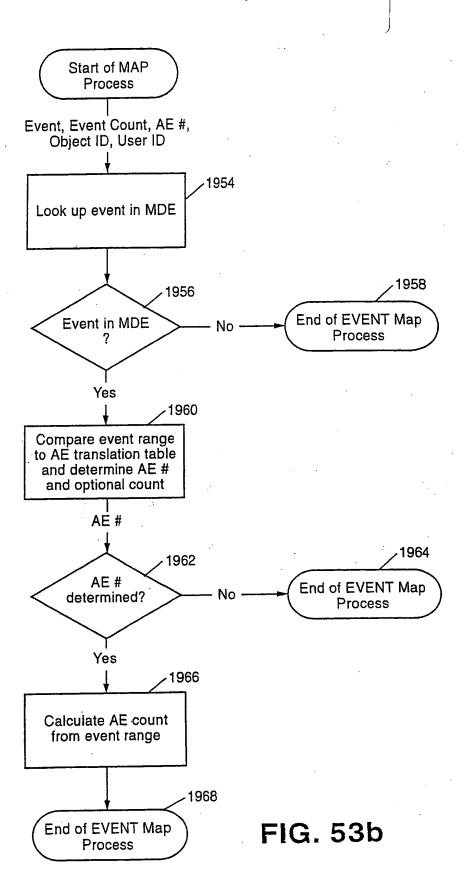




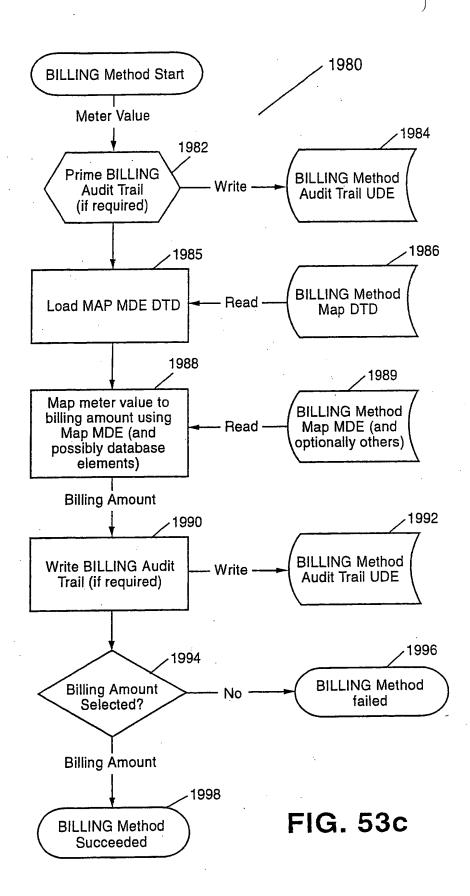


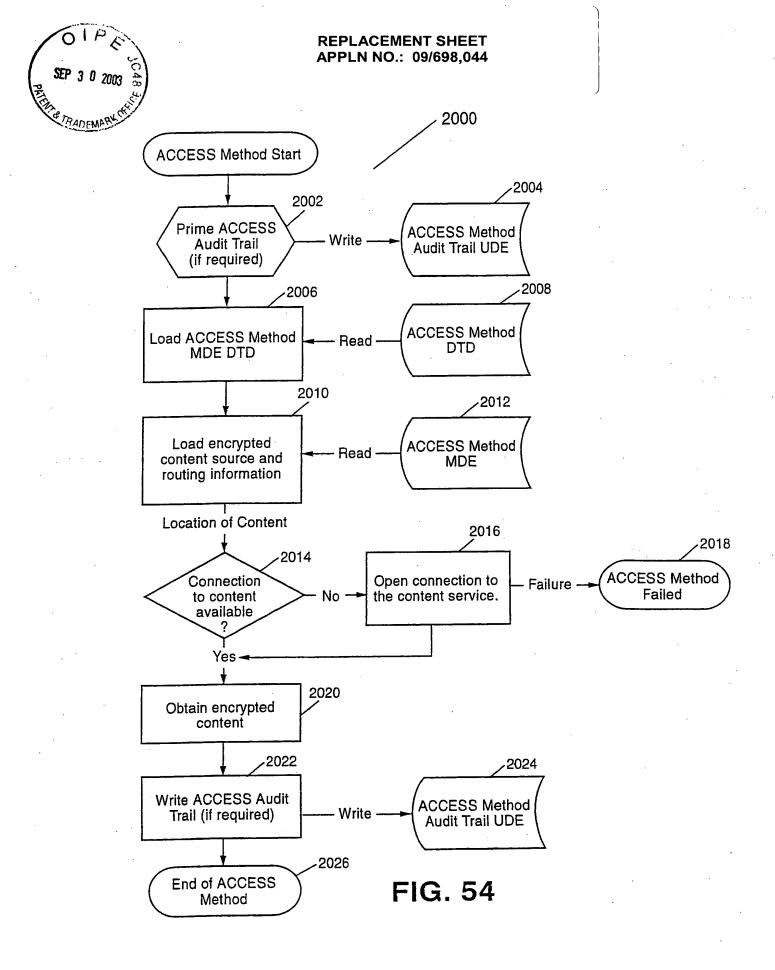


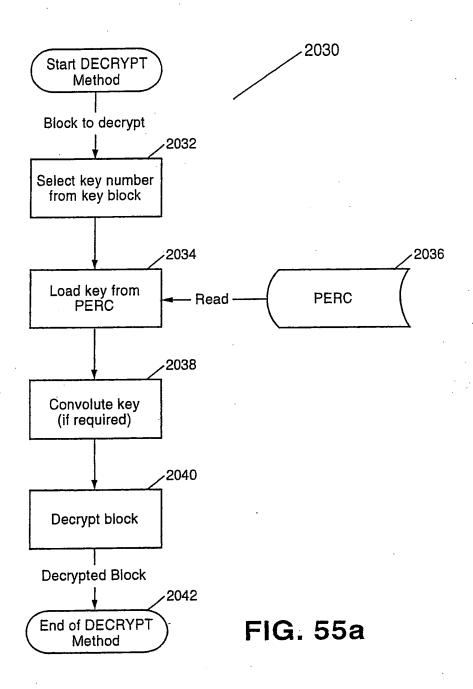




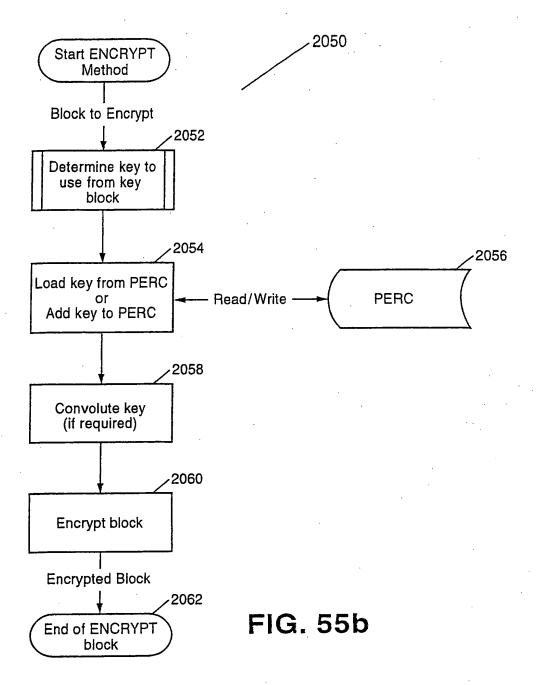




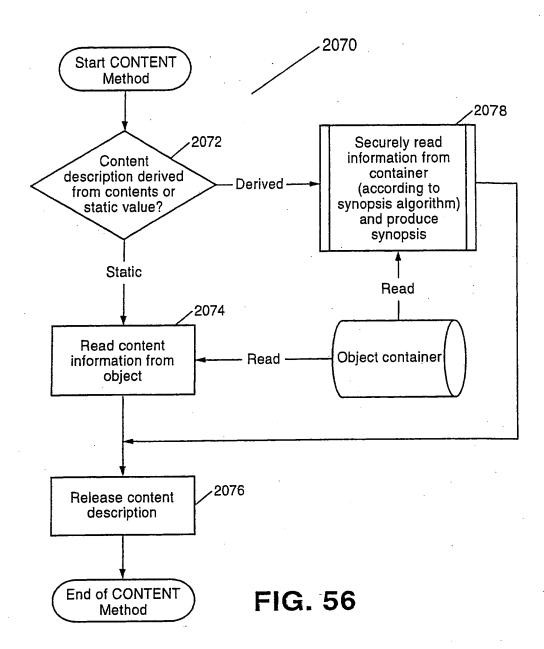


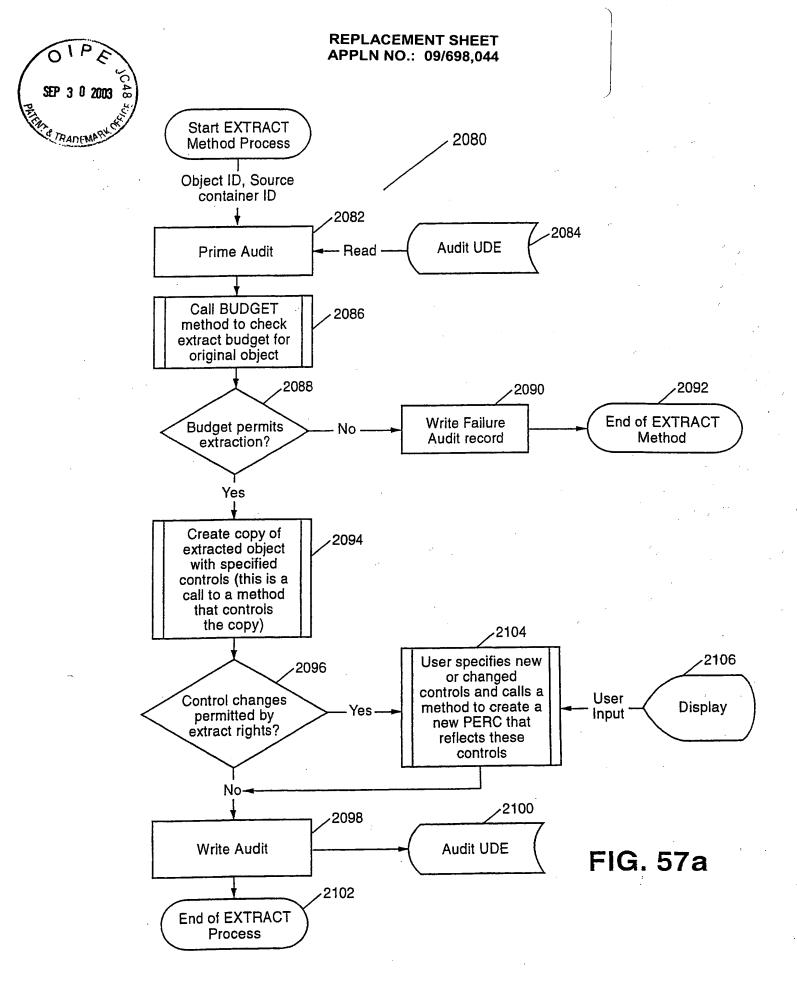


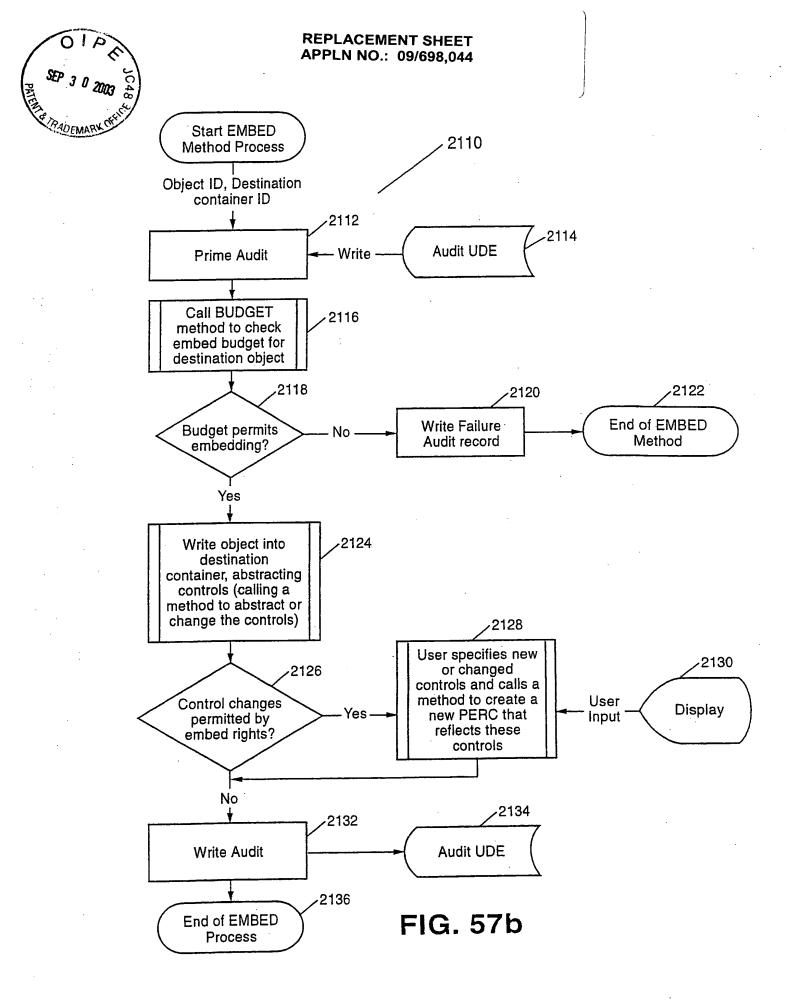




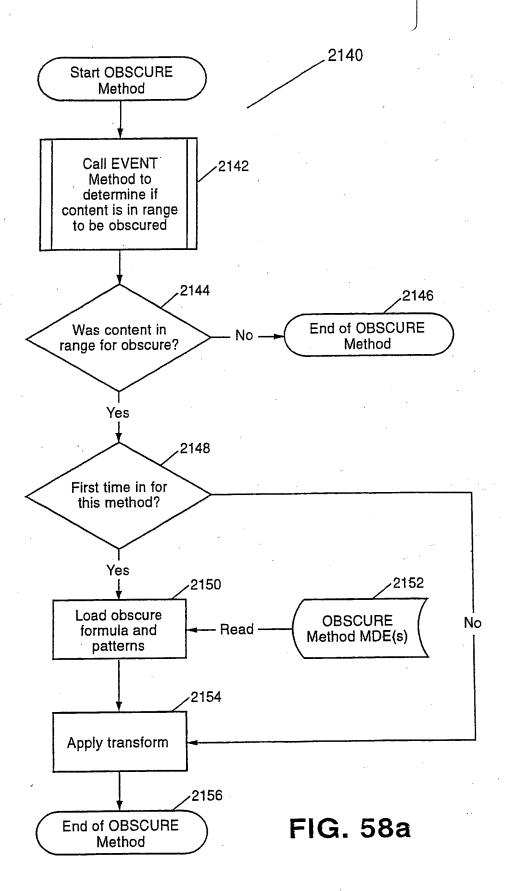




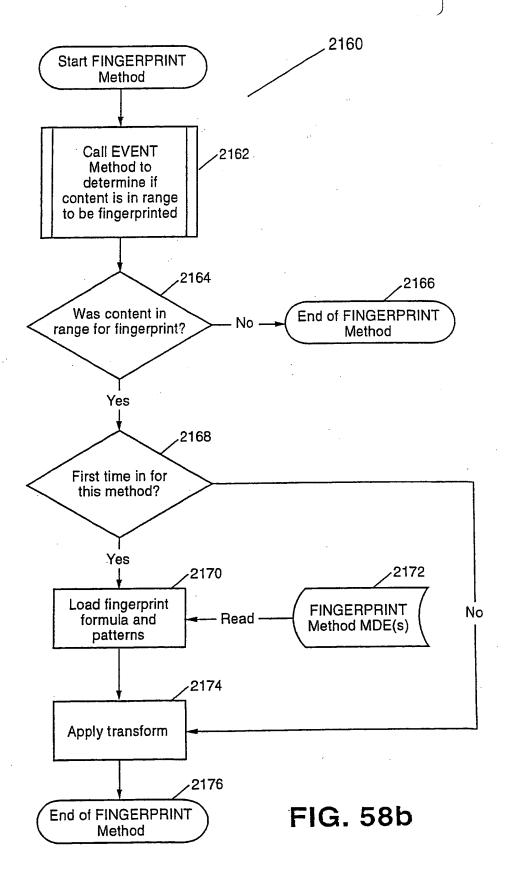














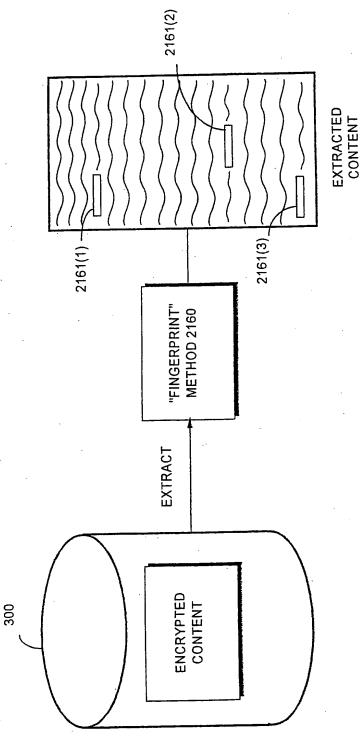
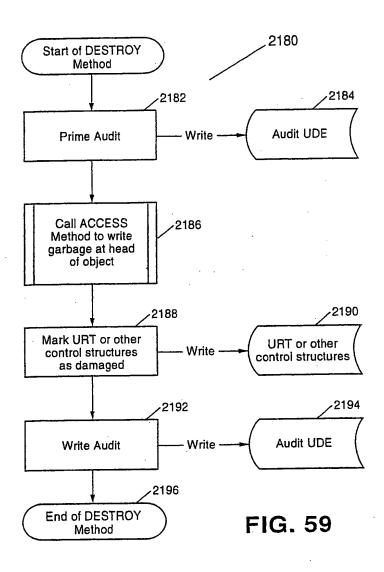
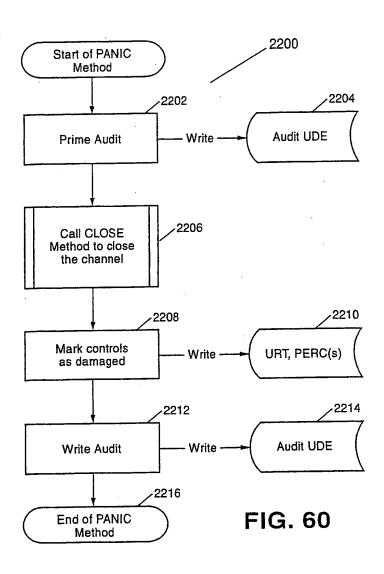


FIG. 58C











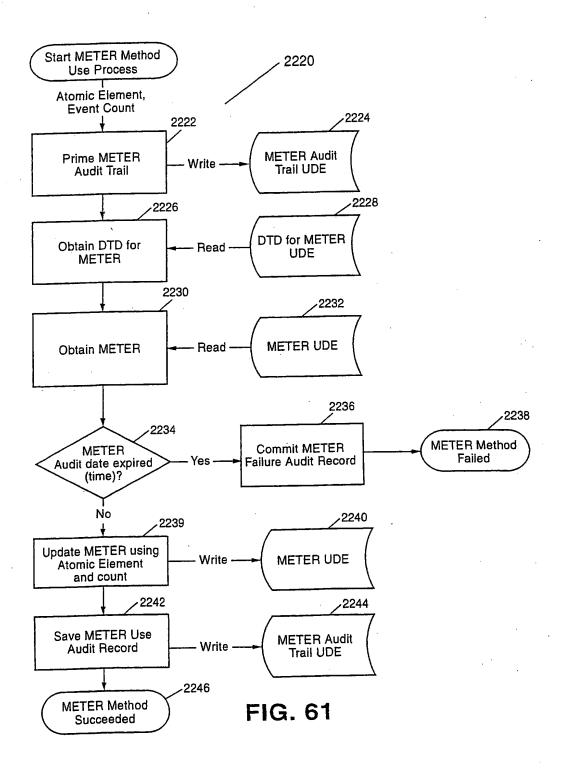
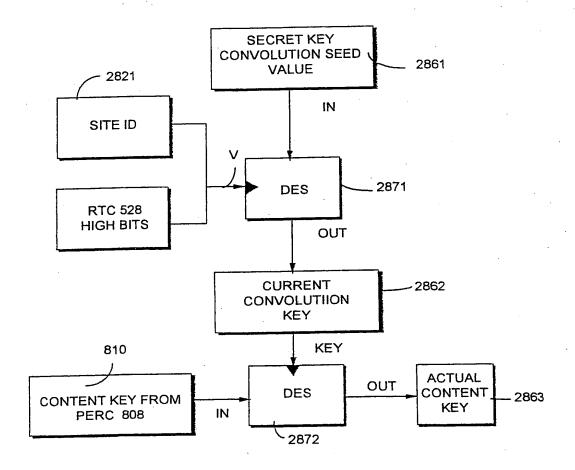


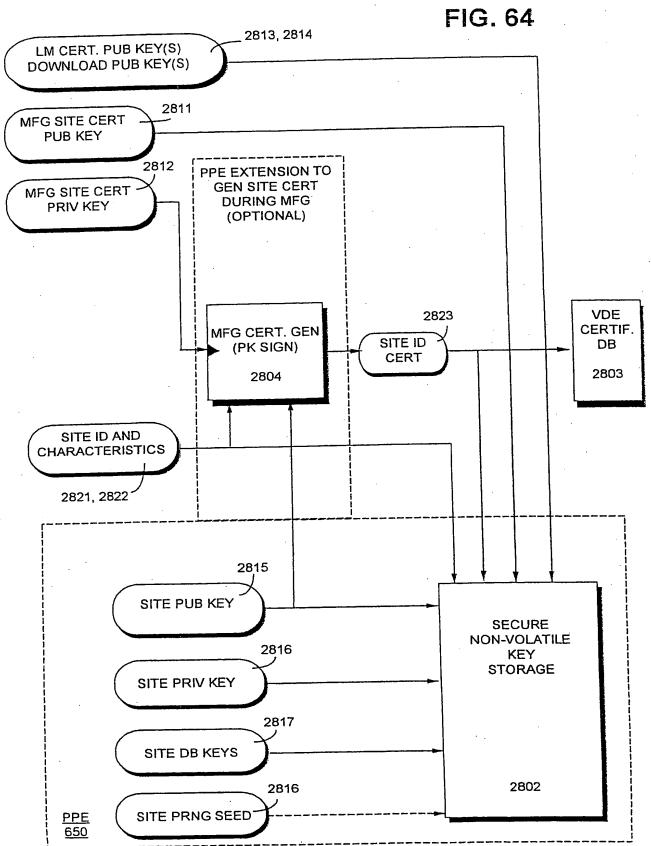


FIG. 62

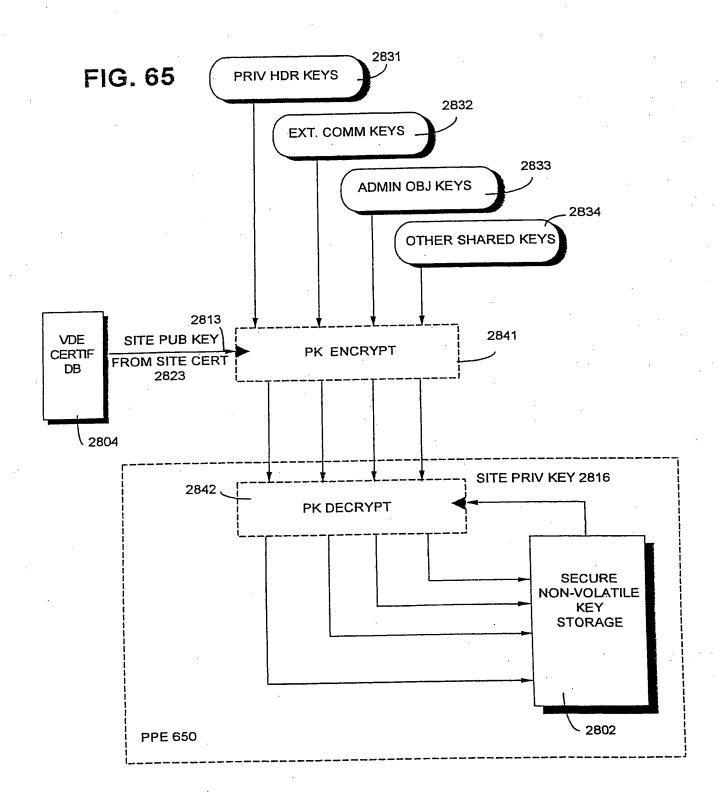




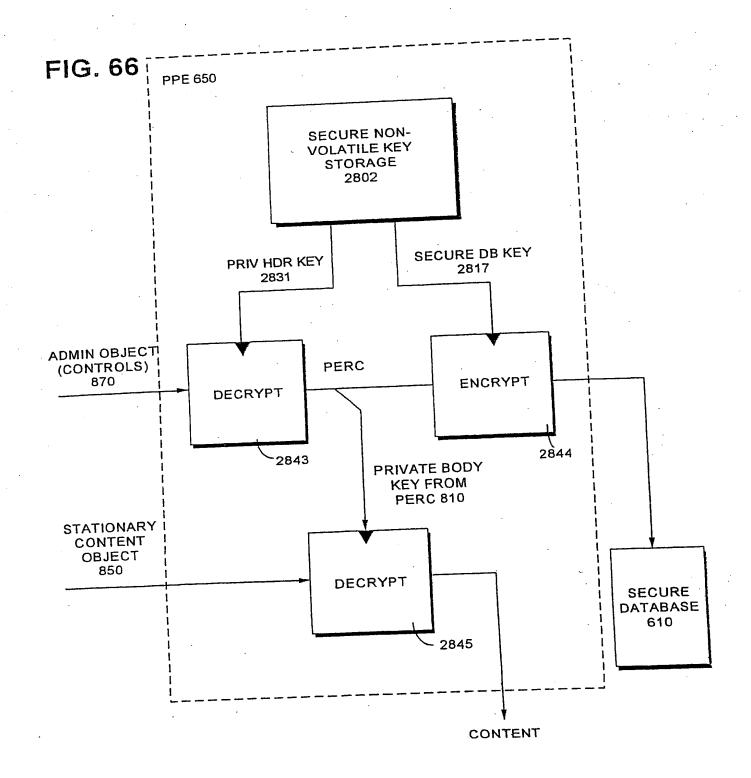
REPLACEMENT SHEET APPLN NO.: 09/698,044



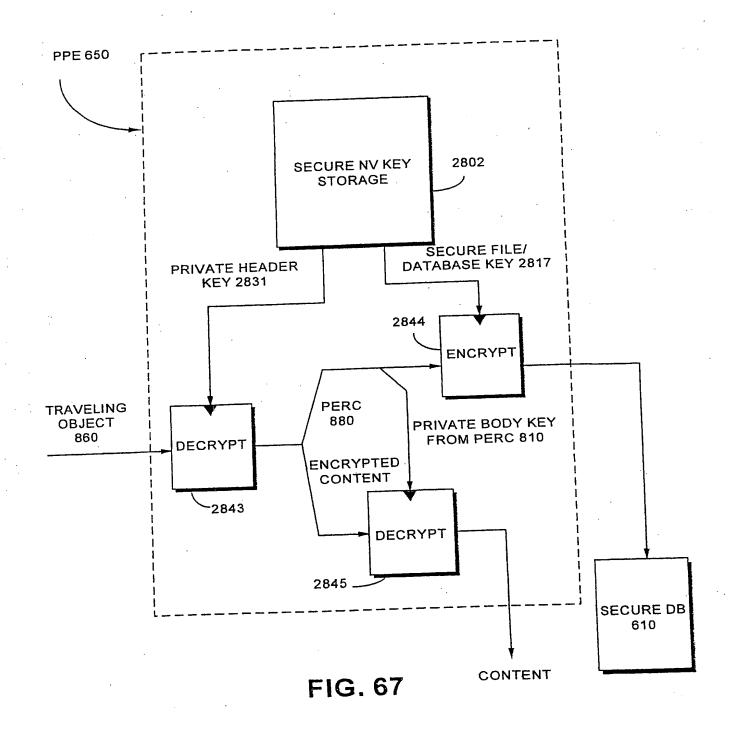


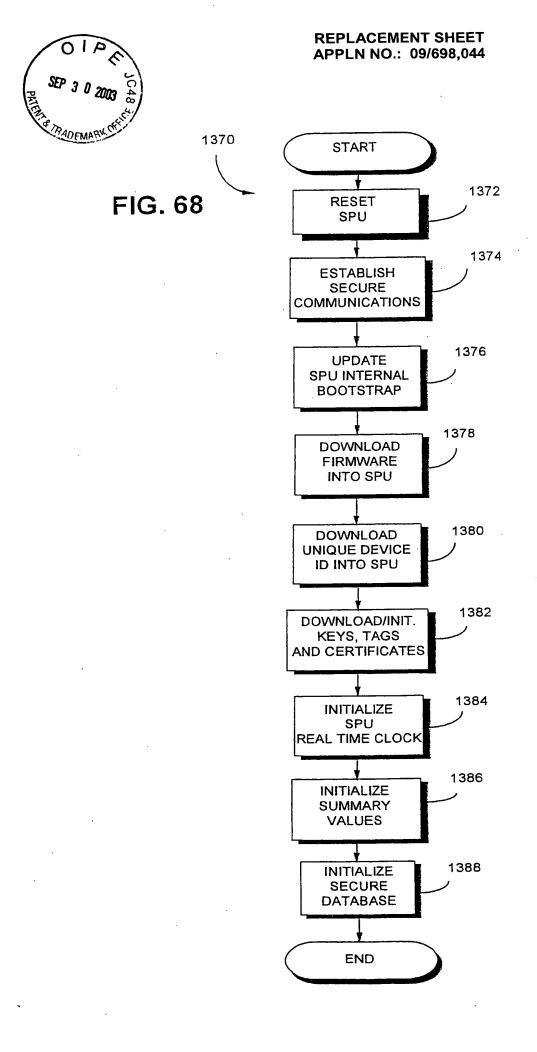




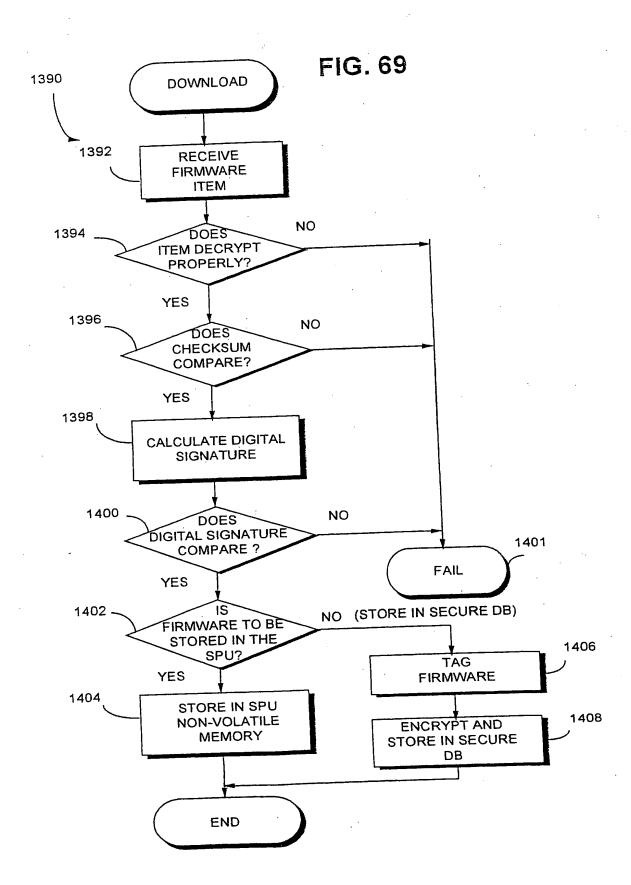




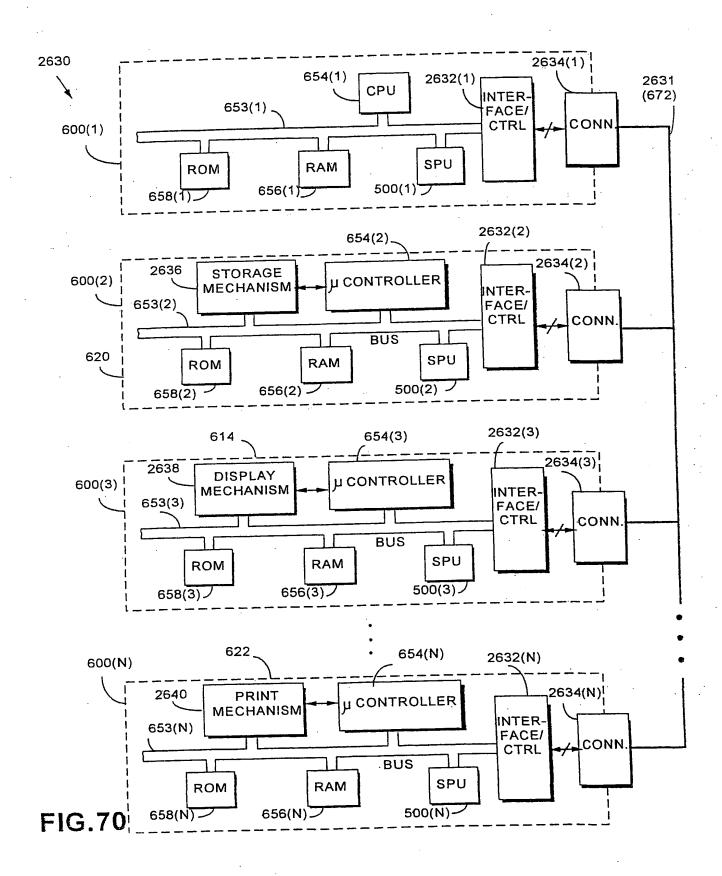




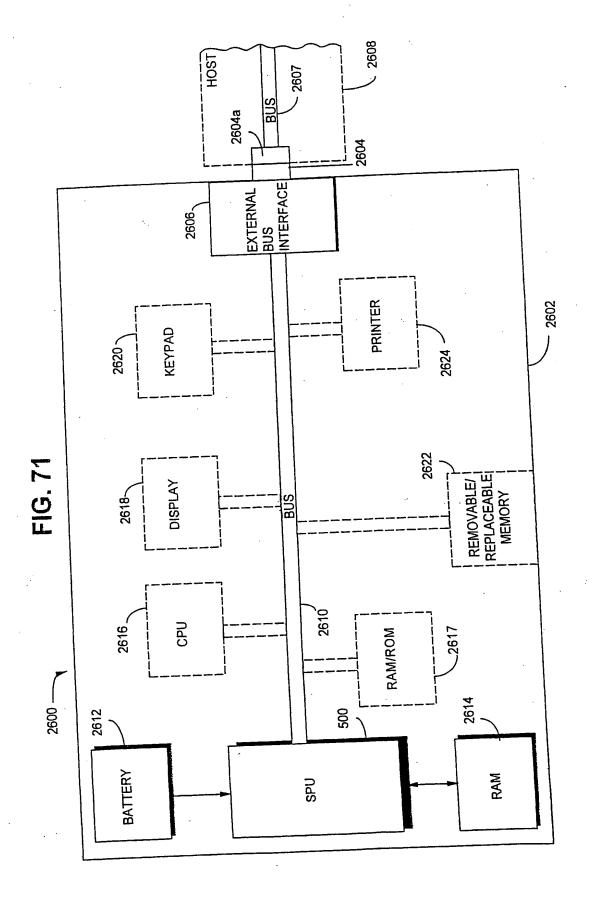














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USER NAME:	SHEAR, V.		LOGIN	
PASSWORD:	* * * * *		CANCEL	
LOGIN AT	STARTUP		HELP	

FIG. 72A

FIG. 72B

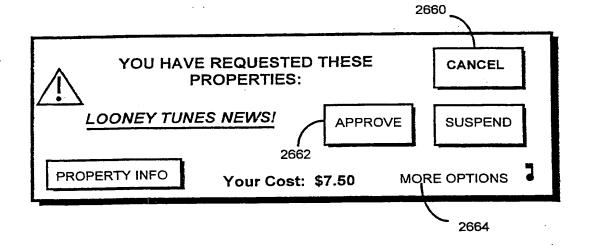
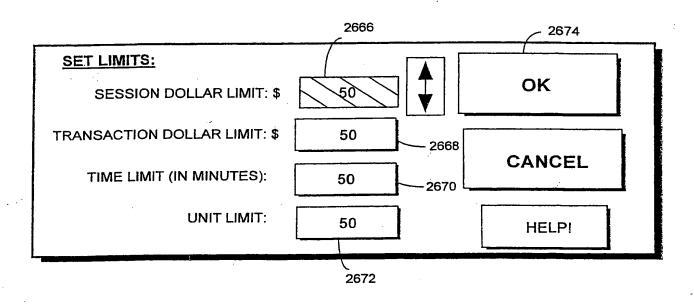




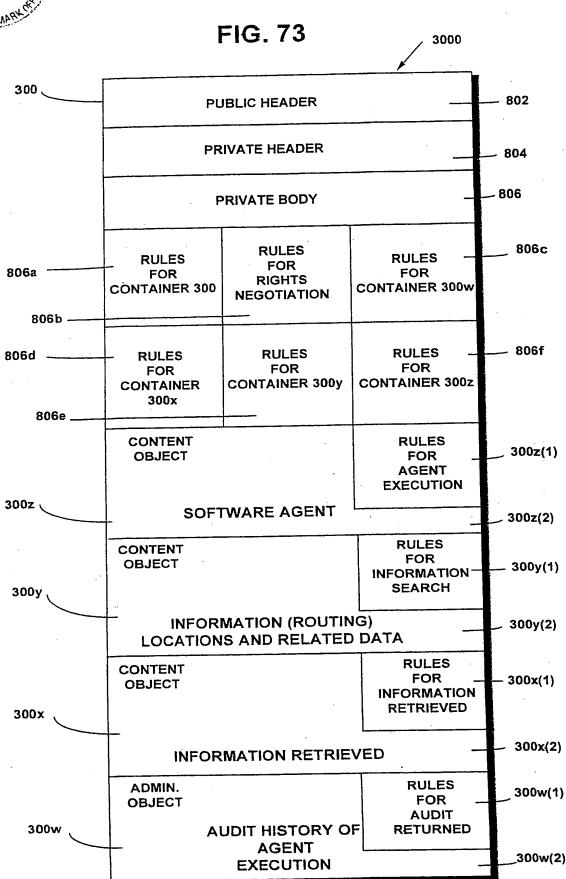
FIG. 72C





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PROPERTY:	SIZE:	PUBLISHER:	AMOUNT.	UNITS: C	COST/UNIT:	TYPE: U	USE?: LINKS:	: HIST:	
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BUGS BUNNY.JPEG	1MB	WARNER NEW MEDIA	۸ 25	RECORD	\$2.50	DISPLAY	4	•	<u>.</u>
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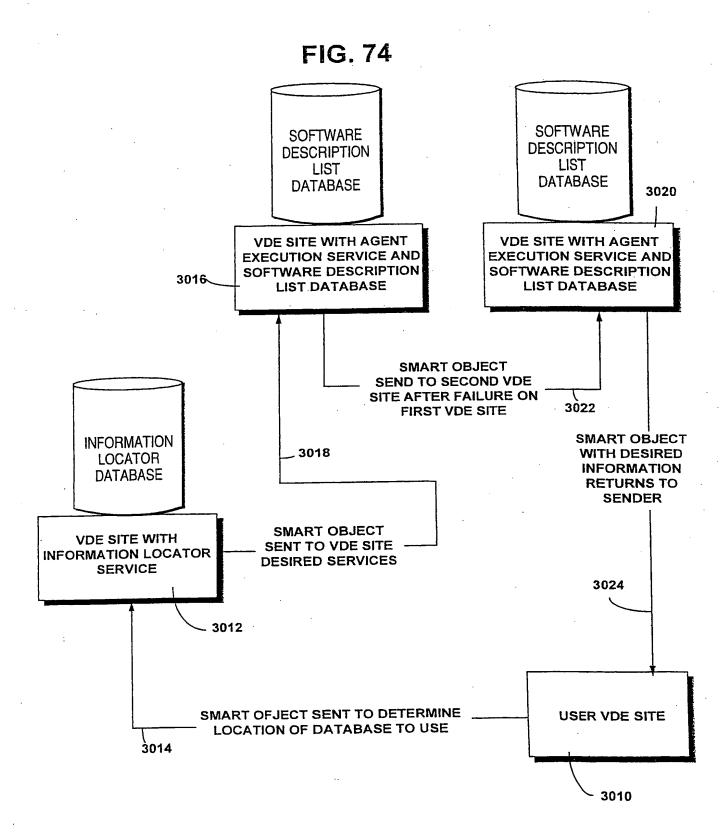


FIG. 75A

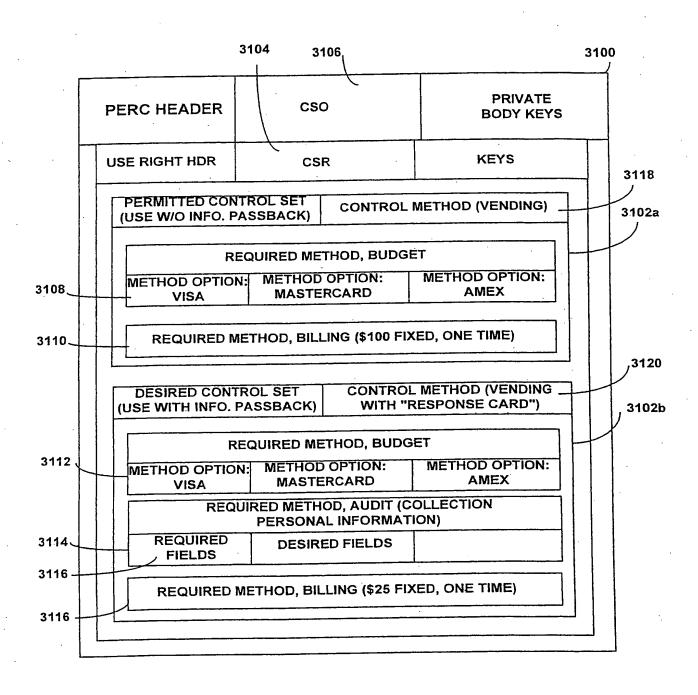




FIG. 75B

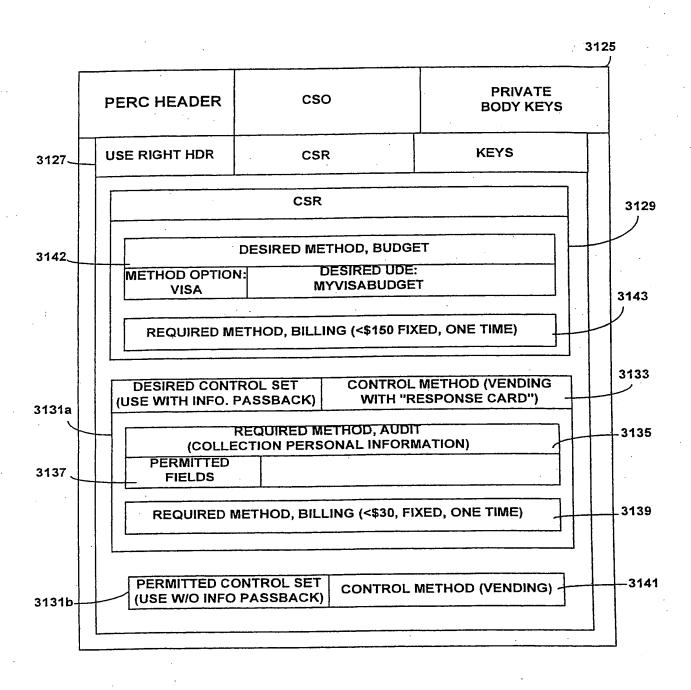




FIG. 75C

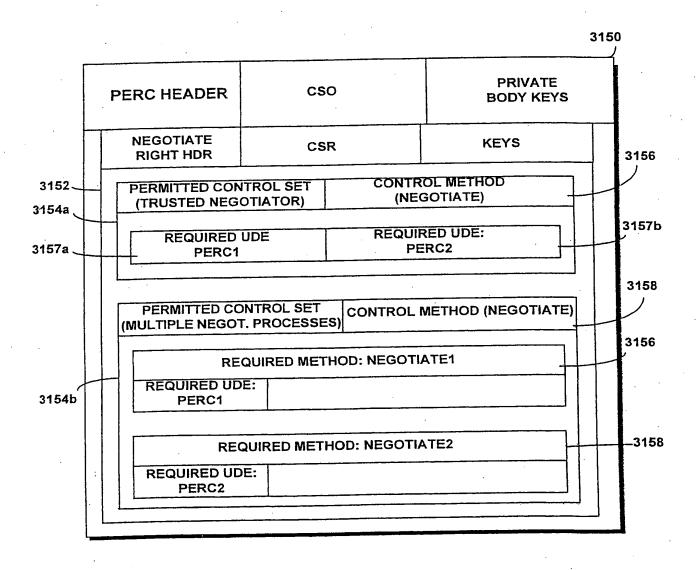
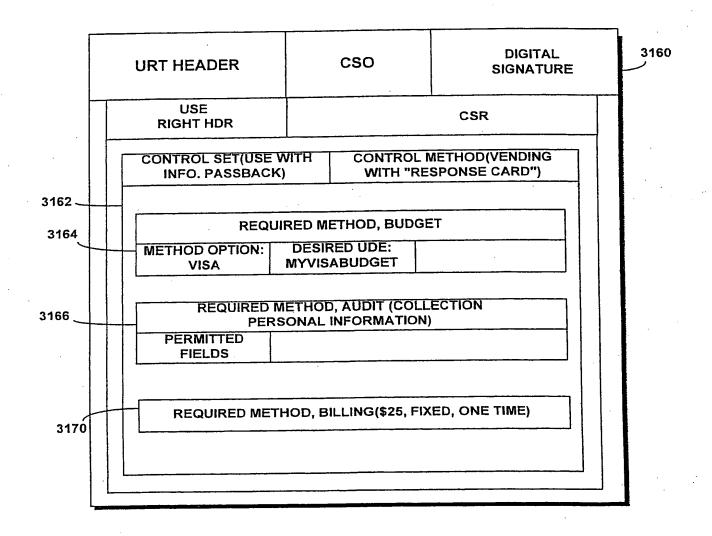
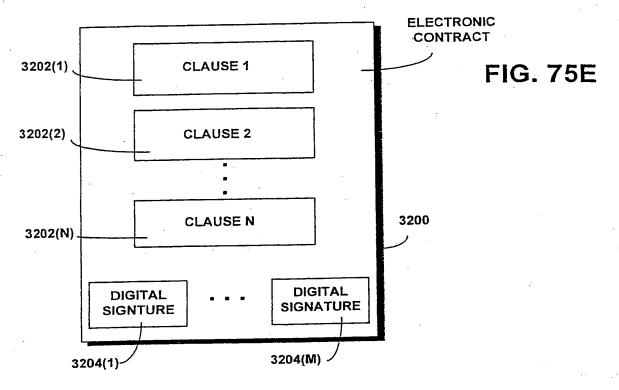




FIG. 75D







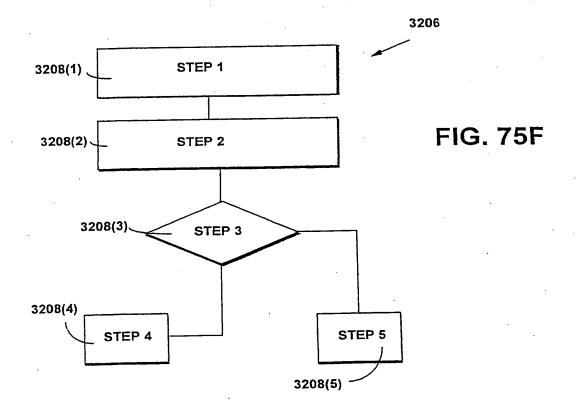




FIG. 76A

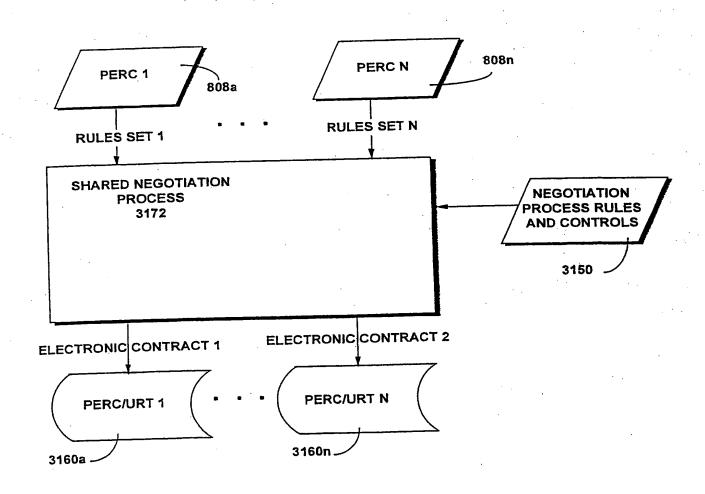
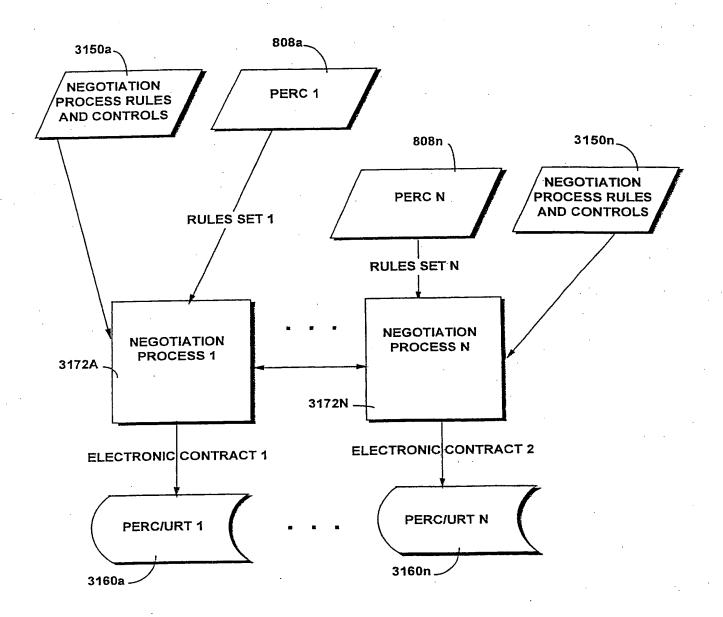
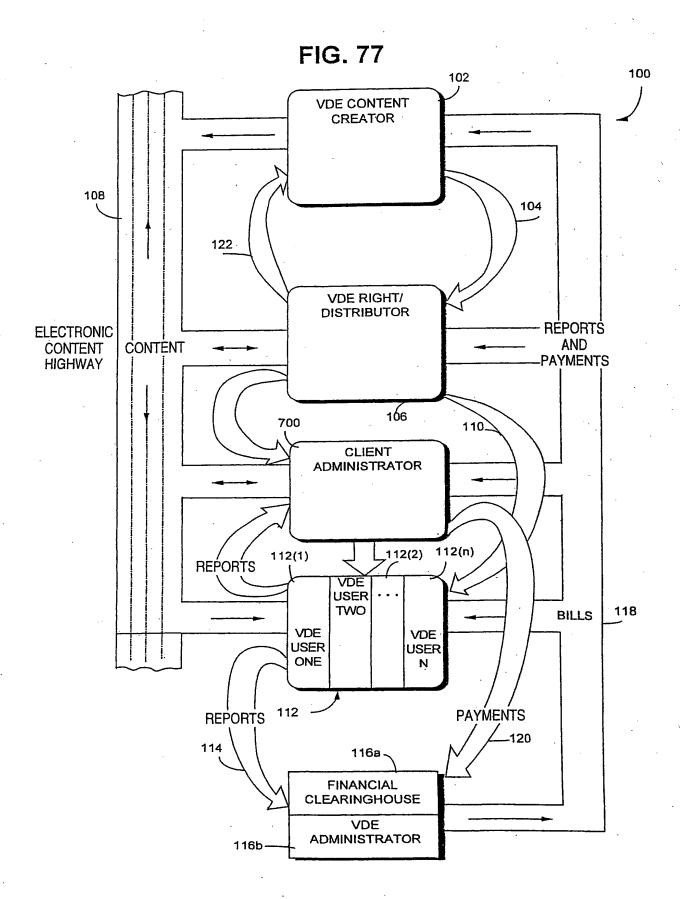
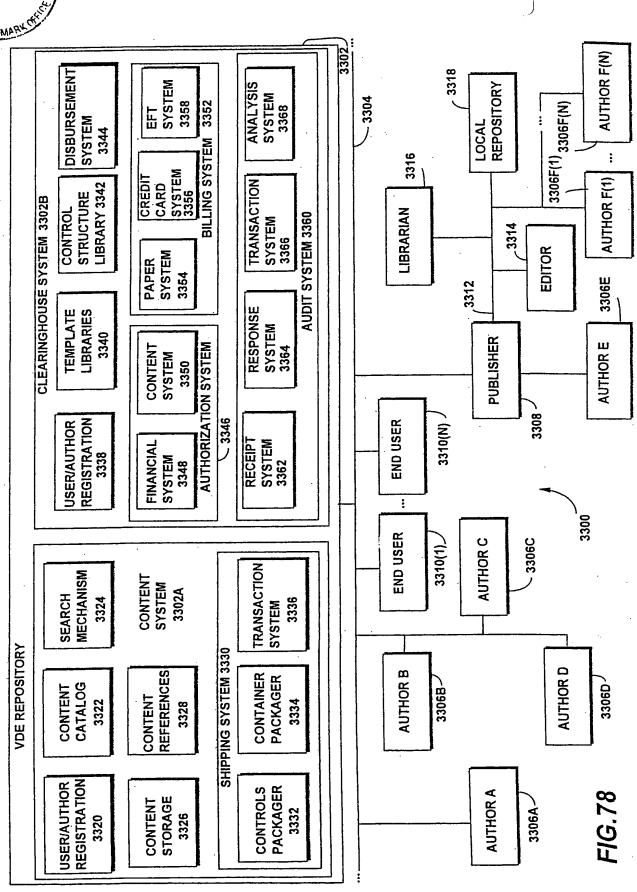


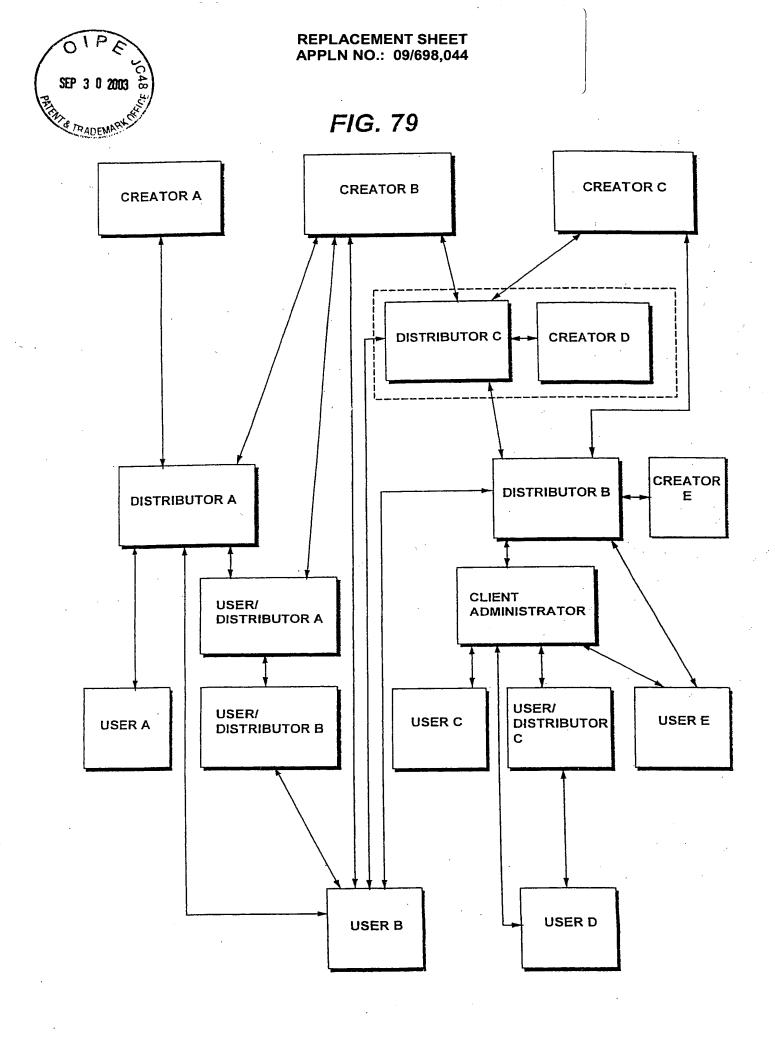
FIG. 76B



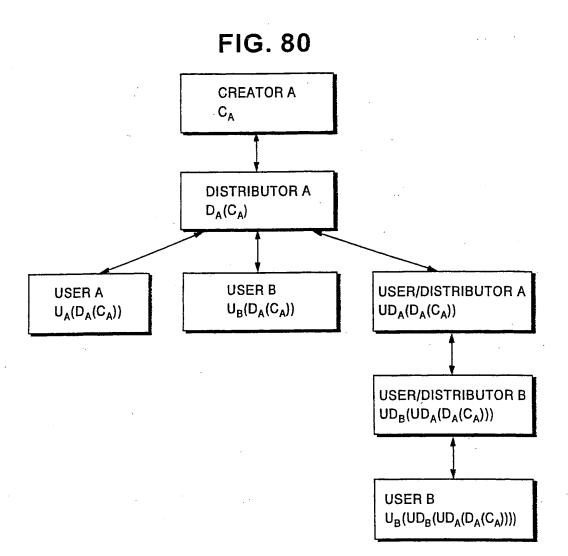


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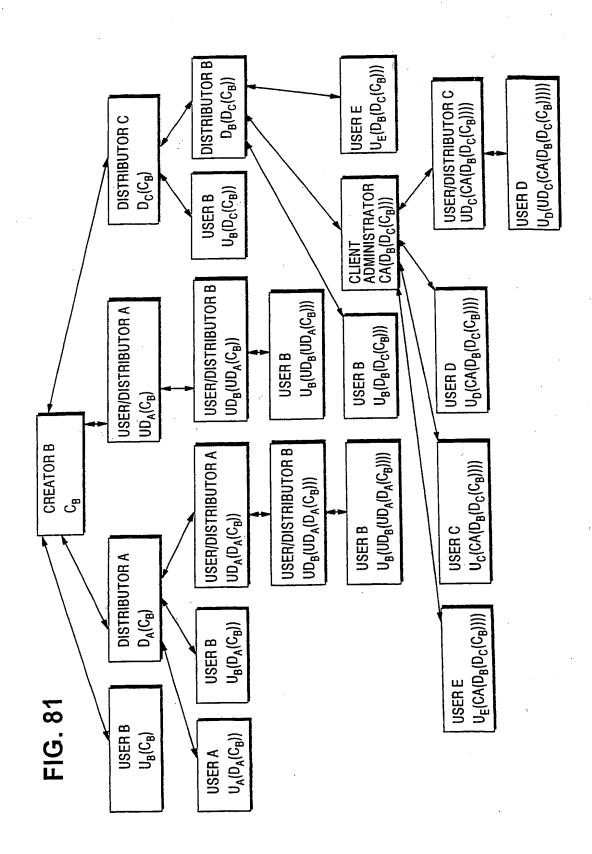


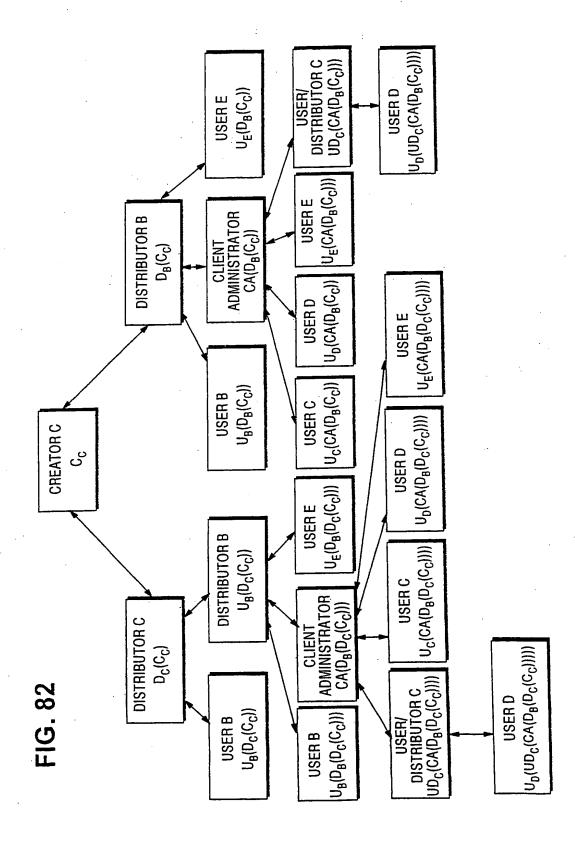


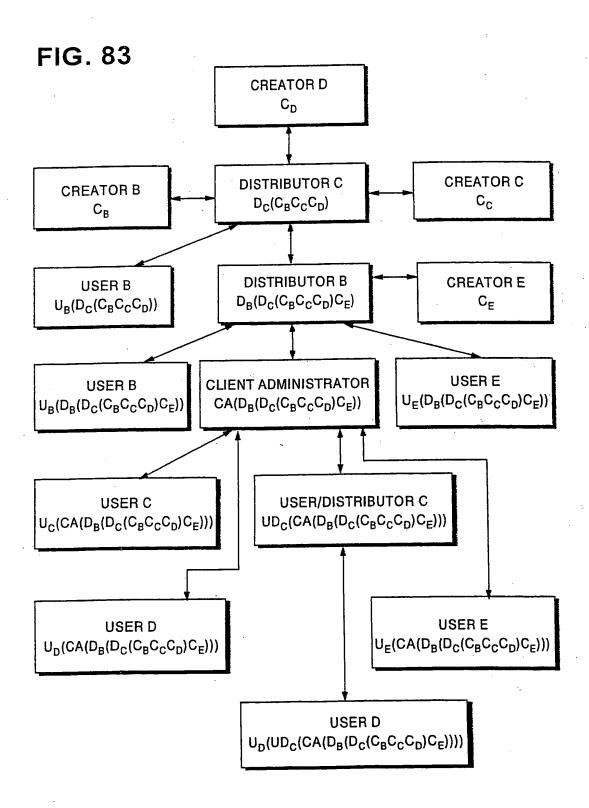












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